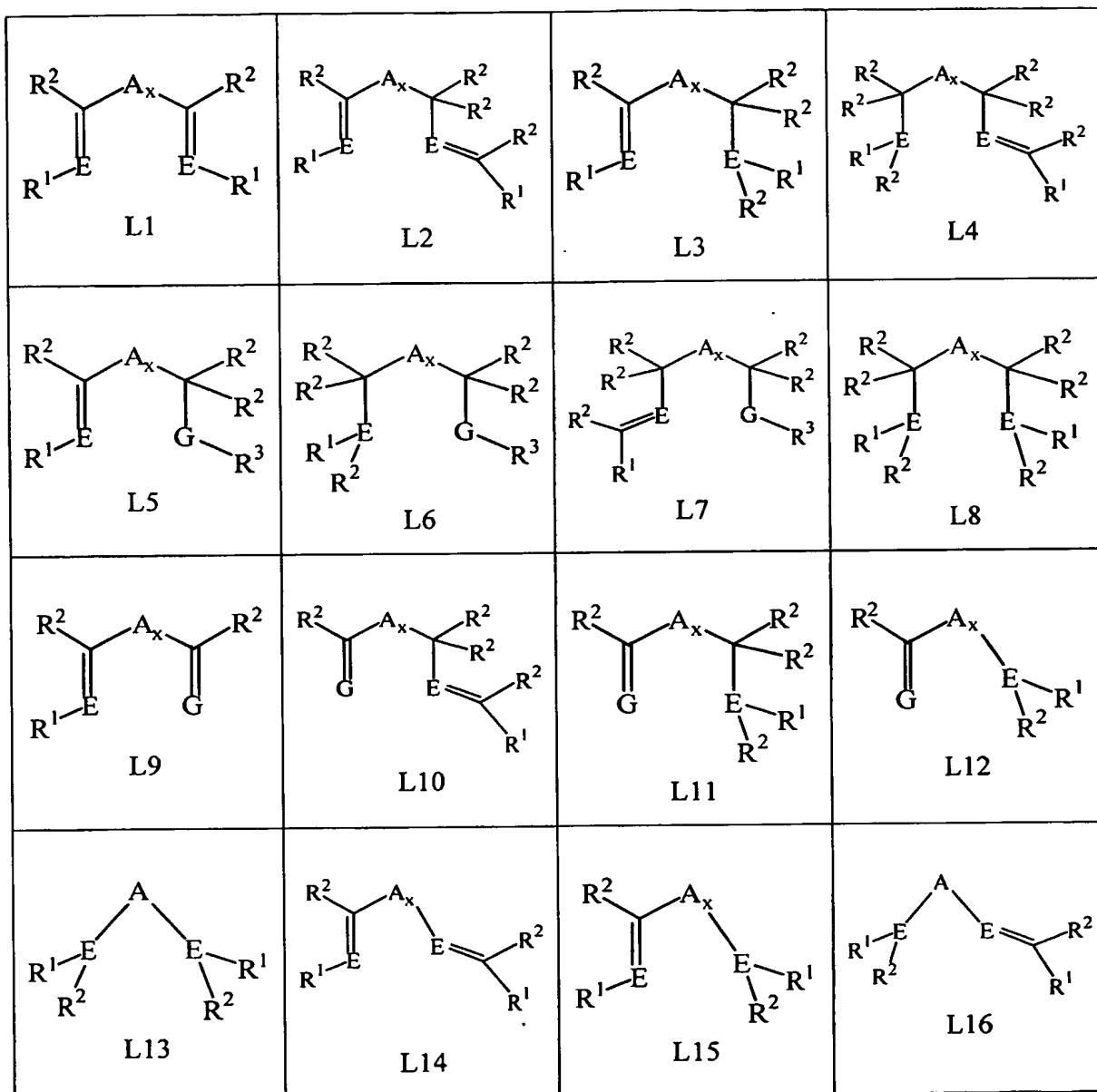


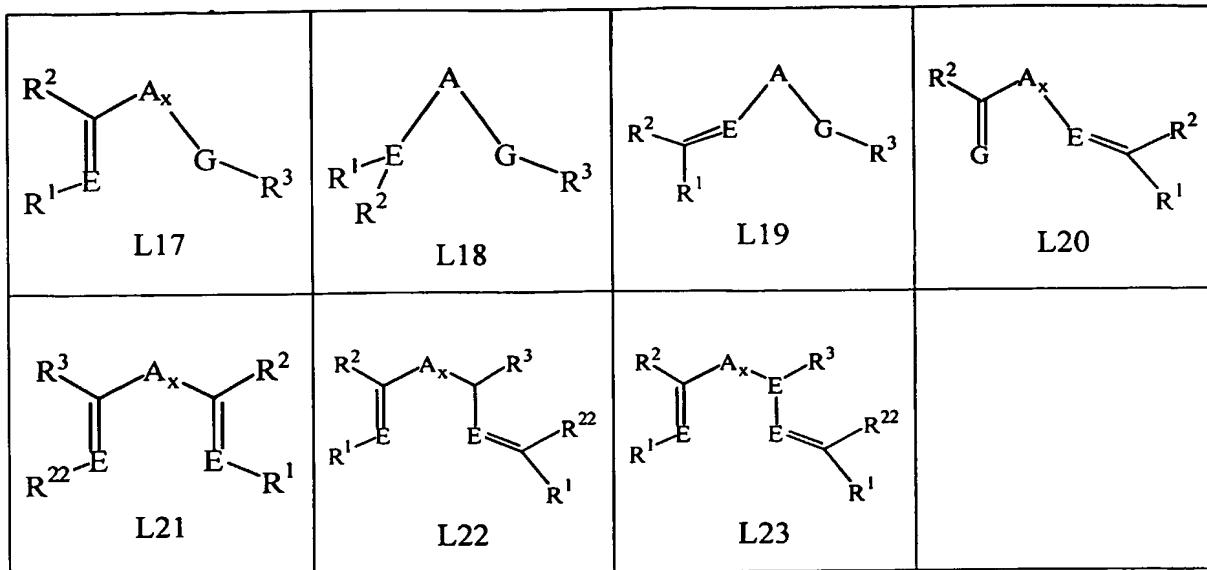
CLAIMS

1. A transition metal compound represented by the formula LMX wherein M is a Group 3 to 11 metal L is a bulky bidentate or tridentate neutral ligand that is bonded to M by two or three heteroatoms and at least one heteroatom is nitrogen; X is a substituted or unsubstituted catecholate ligand provided that the substituted catecholate ligand does not contain a 1,2-diketone functionality.
2. The compound of claim 1 where M is a Group 8, 9, 10 or 11 metal.
3. The compound of claim 1 wherein M is Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag or Au.
4. The compound of claim 1 wherein M is Fe, Co, Ni or Pd.
5. The compound of any of the above claims wherein L is not a ligand selected from the group consisting of: substituted and unsubstituted 2,2'-bipyridyl, 2,2'-biquinoliny, 2,2'-bipyrazinyl, 1,10-phenanthroline, dipyrnidin-2-yl-amine, dipyrnidin-2-yl-methane, *N*¹-(2-amino-ethyl)ethane-1,2-diamine, *N*¹-(3-amino-propyl)propane-1,3-diamine, ethane-1,2-diamine, propane-1,3-diamine, cyclohexane-1,2-diamine, *N,N,N',N'*-tetramethylethane-1,2-diamine, methyl-(2-methyliminoethylidene)amine, *N,N*'-bis(naphthalen-1-ylmethylene)ethane-1,2-diamine, *N,N*'-bis(naphthalen-1-ylmethylene)propane-1,3-diamine, *N,N*'-dibenzylidene-propane-1,3-diamine, *N*¹-naphthalen-1-ylmethylene-ethane-1,2-diamine, 2-[(3-amino-propylimino)methyl]phenol, 2,4,4-trimethyl-1,5,9-triaza-cyclododec-1-ene, 1,4,7-trimethyl-[1,4,7]triazonane, [2,2';6'2'']terpyridine, *N*-[2-dimethylaminoethyl)-*N,N',N'*-trimethylethane-1,2-diamine, cyclopenta[2,1-*b*;3,4-*b'*]dipyrnidin-5-one, 2-(2-pyridylsulfanyl)pyridine, 2-(2-pyridyloxy)pyridine, benzyl-bis(pyridin-2-ylmethyl)amine, 2-pyridin-2-yl-quinoxaline, *N*¹-ethylidene-ethane-1,2-diamine, and bis(1*H*-benzimidazol-2-ylmethyl)amine where substitution refers to replacing one or more existing hydrogen atoms bonded to carbon with another atom or group of atoms; and 1,4-diaza-1,3-butadiene ligands

containing substituents in the 2 and or 3 positions containing trihydrocarbysiloxy groups.

6. The compound of any of the above claims where L is represented by the formulae:





where each E is, independently, a Group 15 element that is bonded to M, provided that at least one E is nitrogen; G is a Group 16 element that is bonded to M; A is a bridging group containing a Group 13-16 element and an atom within A may optionally be bonded to M; x is 0 or 1; R¹ is, independently, a bulky hydrocarbyl, substituted bulky hydrocarbyl, bulky halocarbyl, or substituted bulky halocarbyl; R² is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy; R³ is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy, or R³ is a substituted hydrocarbyl group containing a heteroatom or silicon atom directly bonded to G, E or the indicated carbon atom; R²² is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy; and where

R¹, R² and/or R³ groups on the same atom, adjacent atoms or those separated by one additional atom may join together to form a substituted or unsubstituted, saturated, partially unsaturated or aromatic cyclic or polycyclic ring structure provided that for L1, both pair of R¹ and R² do not join to form a substituted or unsubstituted pyridine, pyrazine, pyrimidine or benzimidazole

ring;

R^{22} and R^3 may join together to form a substituted or unsubstituted, saturated, partially unsaturated or aromatic heterocyclic ring structure provided that for L21 and L22, R^1 and R^2 do not join to form a substituted or unsubstituted pyridine, pyrazine, pyrimidine or benzimidazole ring; and two R^2 bonded to the same atom together may form an -one (=O), a thione (=S), an -imine (=NR''''), or a -carbene (=CR'''')₂ group where R''' is independently, hydrogen, hydrocarbyl, substituted hydrocarbyl, halocarbyl or substituted halocarbyl and two or more R''' on the same carbon may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent.

7. The compound of any of claims 1, 2, 3, 4, or 5 where L is represented by the formulae L*1 to L*410:

where

R^1 is, independently, a bulky hydrocarbyl, substituted bulky hydrocarbyl, bulky halocarbyl, or substituted bulky halocarbyl; R^2 is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy; R^3 is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy, or R^3 is a substituted hydrocarbyl group containing a heteroatom or silicon atom directly bonded to G, E or the indicated carbon atom; R^{22} is, independently, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbylsiloxy;

and where

R^1 , R^2 and/or R^3 groups on the same atom, adjacent atoms or those separated by one additional atom may join together to form a substituted or unsubstituted, saturated, partially unsaturated or aromatic cyclic or polycyclic ring structure provided that for L1, both pair of R^1 and R^2 do not join to form a substituted or unsubstituted pyridine, pyrazine, pyrimidine or benzimidazole ring;

R^{22} and R^3 may join together to form a substituted or unsubstituted, saturated, partially unsaturated or aromatic heterocyclic ring structure provided that for L21 and L22, R^1 and R^2 do not join to form a substituted or unsubstituted pyridine, pyrazine, pyrimidine or benzimidazole ring; and two R^2 bonded to the same atom together may form an -one (=O), a thione (=S), an -imine (=NR^{'''}), or a -carbene (=CR^{'''}₂) group where R^{'''} is independently, hydrogen, hydrocarbyl, substituted hydrocarbyl, halocarbyl or substituted halocarbyl and two or more R^{'''} on the same carbon may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent.

8. The compound of claim 6 or 7, where R^1 is selected from the group consisting of: all isomers and hydrocarbyl substituted isomers of propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, eicosyl, heneicosyl, docosyl, tricosyl, tetracosyl, pentacosyl, hexacosyl, heptacosyl, octacosyl, nonacosyl, triacontyl, propenyl, butenyl, pentenyl, hexenyl, heptenyl, octenyl, nonenyl, decenyl, undecenyl, dodecenyl, tridecenyl, tetradecenyl, pentadecenyl, hexadecenyl, heptadecenyl, octadecenyl, nonadecenyl, eicosenyl, heneicosenyl, docosenyl, tricosenyl, tetracosenyl, pentacosenyl, hexacosenyl, heptacosenyl, octacosenyl, nonacosenyl, triacontenyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonynyl, decynyl, undecynyl, dodecynyl, tridecynyl, tetradecynyl, pentadecynyl, hexadecynyl, heptadecynyl, octadecynyl, nonadecynyl, eicosynyl, heneicosynyl, docosynyl, tricosynyl, tetracosynyl, pentacosynyl, hexacosynyl, heptacosynyl, octacosynyl, nonacosynyl, and triacontynyl; perfluoropropyl, perfluorobutyl, perfluoropentyl, perfluorohexyl, perfluoroheptyl, perfluoroctyl, perfluorononyl, perfluorodecyl, perfluoroundecyl, perfluorododecyl, perfluorotridecyl, perfluorotetradecyl, perfluoropentadecyl, perfluorohexadecyl, perfluoroheptadecyl, perfluoroctadecyl, perfluorononadecyl, perfluoroeicosyl, perfluoroheneicosyl, perfluorodocosyl, perfluorotricosyl, perfluorotetracosyl, perfluoropentacosyl, perfluorohexacosyl, perfluoroheptacosyl, perfluoroctacosyl, perfluorononacosyl, perfluorotriacontyl, perfluorobutenyl, perfluorobutynyl,

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trimethylsilylheptadecyl, trimethylsilyloctadecyl, trimethylsilylnonadecyl,
trimethylsilyleicosyl, trimethylsilylheneicosyl, trimethylsilyldocosyl,
trimethylsilyltricosyl, trimethylsilyltetracosyl, trimethylsilylpentacosyl,
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dimethylphenyl, trimethylphenyl, tetramethylphenyl, pentamethylphenyl
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propylphenyl, dipropylphenyl, tripropylphenyl, tetrapropylphenyl,
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butylpentylphenyl, butylhexylphenyl, methoxyphenyl, ethoxyphenyl,
propoxyphenyl, butoxyphenyl, pentoxyphenyl, hexoxyphenyl,
dimethoxyphenyl, phenoxyphenyl, methylmethoxyphenyl,
dimethylaminophenyl, dipropylaminophenyl, bis(dimethylamino)phenyl,
methyl(dimethylamino)phenyl, trimethylsilylphenyl, trimethylgermylphenyl,
trifluoromethylphenyl, bis(trifluoromethyl)phenyl, trifluoromethoxyphenyl,
halophenyl, dihalophenyl, trihalophenyl, tetrahalophenyl, and
pentahalophenyl, halomethylphenyl, dihalomethylphenyl,
trihalomethylphenyl, tetrahalomethylphenyl, haloethylphenyl,
dihaloethylphenyl, trihaloethylphenyl, tetrahaloethylphenyl, halopropylphenyl,

dihalopropylphenyl, trihalopropylphenyl, tetrahalopropylphenyl, halobutylphenyl, dihalobutylphenyl, trihalobutylphenyl, tetrahalobutylphenyl, dihalodimethylphenyl, dihalo(trifluoromethyl)phenyl (where halo is, independently, fluoro, chloro, bromo and iodo), methylbenzyl, dimethylbenzyl, trimethylbenzyl, tetramethylbenzyl, pentamethylbenzyl ethylbenzyl, diethylbenzyl, triethylbenzyl, tetraethylbenzyl, pentaethylbenzyl, propylbenzyl, dipropylbenzyl, tripropylbenzyl, tetrapropylbenzyl, pentapropylbenzyl butylbenzyl, dibutylbenzyl, tributylbenzyl, tetrabutylbenzyl, pentabutylbenzyl, hexylbenzyl, dihexylbenzyl, trihexylbenzyl, tetrahexylbenzyl, pentahexylbenzyl, dimethylethylbenzyl, dimethylpropylbenzyl, dimethylbutylbenzyl, dimethylpentylbenzyl, dimethylhexylbenzyl, diethylmethylbenzyl, diethylpropylbenzyl, diethylbutylbenzyl, diethylpentylbenzyl, diethylhexylbenzyl, dipropylmethylbenzyl, dipropylethylbenzyl, dipropylbutylbenzyl, dipropylpentylbenzyl, dipropylhexylbenzyl, dibutylmethylbenzyl, dibutylethylbenzyl, dibutylpropylbenzyl, dibutylpentylbenzyl, dibutylhexylbenzyl, methylethylbenzyl, methylpropylbenzyl, methylbutylbenzyl, methylpentylbenzyl, methylhexylbenzyl, ethylpropylbenzyl, ethylbutylbenzyl, ethylpentylbenzyl, ethylhexylbenzyl, propylbutylbenzyl, propylpentylbenzyl, propylhexylbenzyl, butylpentylbenzyl, butylhexylbenzyl, methoxybenzyl, ethoxybenzyl, propoxybenzyl, butoxybenzyl, pentoxybenzyl, hexoxybenzyl, dimethoxybenzyl, phenoxybenzyl, methylmethoxybenzyl, dimethylaminobenzyl, dipropylaminobenzyl, bis(dimethylamino)benzyl, methyl(dimethylamino)benzyl, trifluoromethylbenzyl, bis(trifluoromethylbenzyl), trifluoromethoxybenzyl, trimethylsilylbenzyl, bis(trimethylsilyl)benzyl, trimethylgermylbenzyl, diphenylmethyl, trimethylsilyl, trimethylgermyl, trimethylstannyl, trimethylplumbyl, triethylsilyl, triethylgermyl, dimethylethylsilyl, dimethylethylgermyl, diethylmethylsilyl, diethylmethylgermyl, triphenylsilyl, triphenylgermyl, triphenoxyisilyl, triphenoxygermyl, trimethoxysilyl, trimethoxygermyl, triethoxysilyl, triethoxygermyl, and all isomers of tripropylsilyl, tripropylgermyl, tributylsilyl, tributylgermyl, tripropoxysilyl, tripropoxygermyl, tributoxysilyl, tributoxygermyl, tris(trifluoromethyl)silyl,

bis(perfluoromethyl)methylsilyl, pyrenyl, aceanthrylenyl, acenaphthylene, acephenanthrylenyl, azulenyl biphenylenyl, chrysanyl, coronenyl, fluoranthenyl, fluorenyl, heptacenyl, heptalenyl, heptaphenyl, hexacenyl, hexaphenyl, *as*-indacenyl, *s*-indecanyl, indenyl, ovalenyl, pentacenyl, pentalenyl, pentaphenyl, perylenyl, phenalenyl, phenanthrenyl, picenyl, pleiadenyl, pyranhrenyl, rubicenyl, naphthacenyl, tetraphenyl, trinaphthyl, triphenylenyl, hexahelicenyl, naphthyl, anthracenyl, dibenza[*a,b*]anthracenyl, indanyl, acenaphthenyl, cholanthrenyl, aceanthrenyl, acephenanthrenyl, 1,2,3,4-tetrahydronaphthalene, fulleranyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclohexenyl, cycloheptyl, cyclooctyl, cyclononyl, cyclodecyl, cycloundecyl, and cyclododecyl, dimethylcyclohexyl, norbornyl, norbornenyl, adamanyl, cubanyl, prisanyl, spiro[4,5]decanyl, biphenyl, bicyclopentyl, terphenyl, quatercyclohexanyl, binaphthyl, binorbornyl, phenyl-terphenyl, 1,1-diphenylmethano, 1,1-dinaphthyletheno, acridarsinyl, acridinyl, acridophosphinyl, 1*H*-acrindolinyl, anthrazinyl, anthyridinyl, arsanthridinyl, arsindolyl, arsindolizinyl, arsinolinyl, arsinolizinyl, benzofuranyl, carbazolyl, β -carbolinyl, chromenyl, thiochromenyl, cinnolinyl, furanyl, imidazolyl, indazolyl, indolyl, indolizinyl, isoarsindolyl, isoarsinoliny, isobenzofuranyl, isochromenyl, isothiochromenyl, isoindolyl, isophosphindolyl, isophosphinoliny, isoquinolinyl, isothiazolyl, isoxazolyl, naphthyridinyl, oxazolyl, perimidinyl, phenanthrazinyl, phenanthridinyl, phenanthrolinyl, phenazinyl, phosphanthridinyl, phosphindolyl, phosphindolizinyl, phosphinolizinyl, phthalazinyl, pteridinyl, phthaloperinyl, purinyl, pyranyl, thiopyranal, pyrazinyl, pyrazolyl, pyridazinyl, pyridinyl, pyridinyl, pyrimidinyl, pyrrolyl, pyrrolizinyl, quinazolinyl, quindolinyl, 1*H*-quinindolinyl, quinolinyl, quinolizinyl, quinoxalinyl, selenophenyl, thebenidinyl, thiazolyl, thiophenyl, triphenodioxazinyl, triphenodithiazinyl, xanthenyl, chromanyl, thiochromanyl, imidazolidinyl, indolinyl, isochromanyl, isothiochromanyl, isoindolinyl, morpholinyl, piperazinyl, piperidinyl, pyrozolidinyl, pyrrolidinyl, quinuclidinyl, dimethylacridarsinyl, dimethylacridinyl, dimethylacridophosphinyl, dimethyl-1*H*-acrindolinyl, dimethylanthrazinyl, dimethylanthyridinyl, dimethylarsanthridinyl, dimethylarsindolyl,

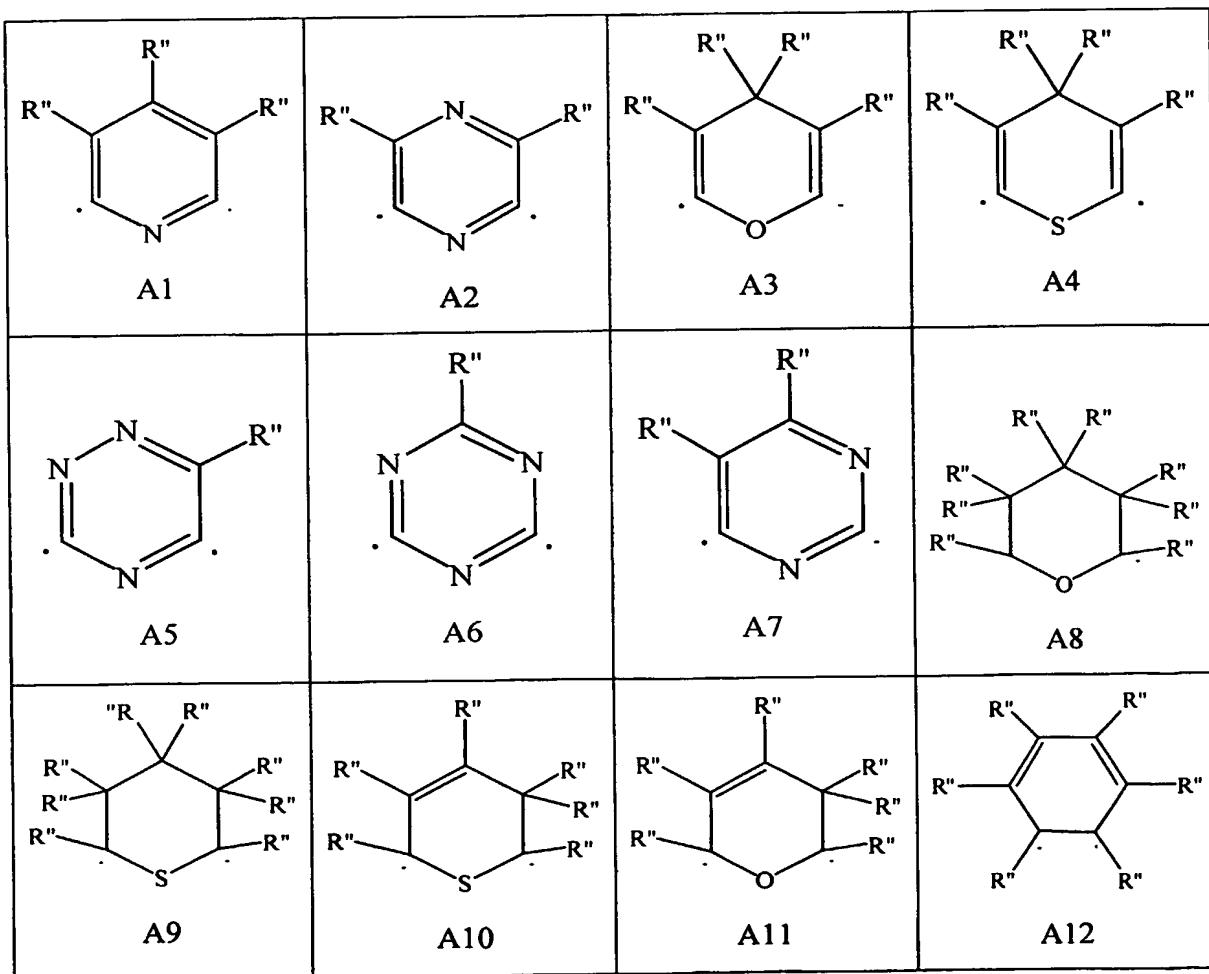
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dimethylimidazolyl, dimethylindazolyl, dipropylindolyl, dipropylindolizinyl,
dimethylisoarsindolyl, methylisoarsinolinyl, dimethylisobenzofuranyl,
diphenylisochromenyl, dibutylisothiochromenyl, phenylisoindolyl,
butylisophosphindolyl, dibutylisophosphinoliny, dimethylisoquinolinyl,
methylisothiazolyl, butylisoxazolyl, butylnaphthyridinyl, dimethyloxazolyl,
methylphenylperimidinyl, tetrabutylphenanthrazinyl, propylphenanthridinyl,
dibutylphenanthrolinyl, tetramethylphenazinyl, butylphosphanthridinyl,
phenylphosphindolyl, dimethylphosphindolizinyl, methylphosphinolizinyl,
dibutylphthalazinyl, trimethylpteridinyl, methylphthaloperinyl,
dimethylpurinyl, dibutylpyranyl, dibutylthiopyranal, trimethylpyrazinyl,
phenylpyrazolyl, dipropylpyridazinyl, dimethylpyridinyl,
methylpropylpyrindinyl, triethylpyrimidinyl, dibutylpyrrolyl,
diethylpyrrolizinyl, dibutylquinazolinyl, dibutylquindolinyl, dibutyl-1*H*-
quinindolinyl, dimethylquinolinyl, propylquinolizinyl, methylquinoxaliny,
methylbutylselenophenyl, methylthebenidinyl, dimethylthiazolyl,
trimethylthiophenyl, dibutyltriphenodioxazinyl, dibutyltriphenodithiazinyl,
dibutylxanthenyl, trimethylchromanyl, dimethylthiochromanyl,
dimethylimidazolidinyl, dimethylindolinyl, dibutylisochromanyl,
dibutylisothiochromanyl, phenylisoindolinyl, dibutylmorpholinyl,
dimethylpiperazinyl, dimethylpiperidinyl, dimethylpyrozolidinyl,
dimethylpyrrolidinyl, bipyridyl, pyrido[2,1,6-*d*]quinolizinyl,
hexamethylquinuclidinyl, 5,7-dioxa-6-phosphadibenzo[*a,c*]cycloheptene-6-
oxide, and 9-oxa-10-phosphaphenanthrene-10-oxide.

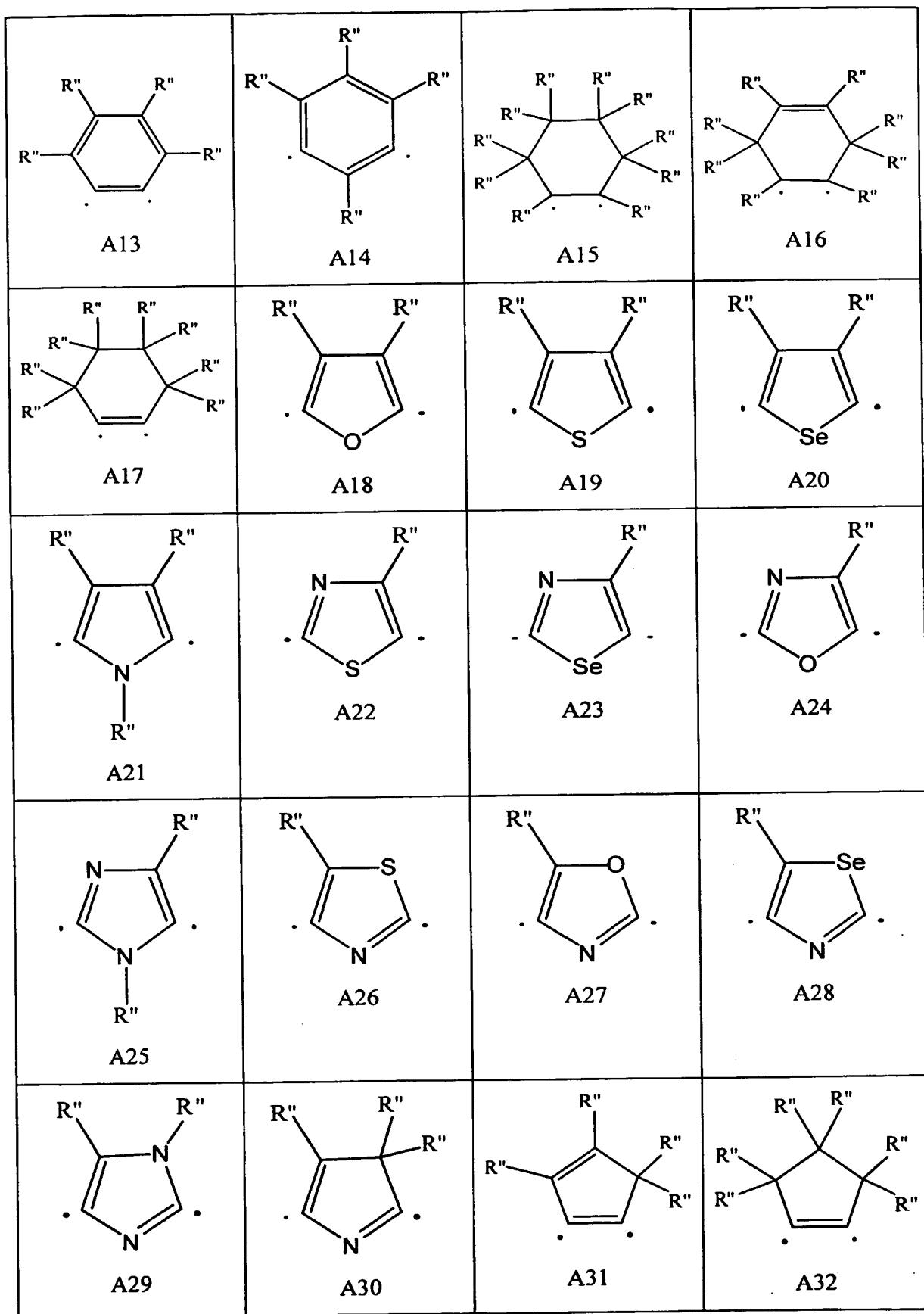
9. The compound of claim 6 where A is represented by the following formulae:

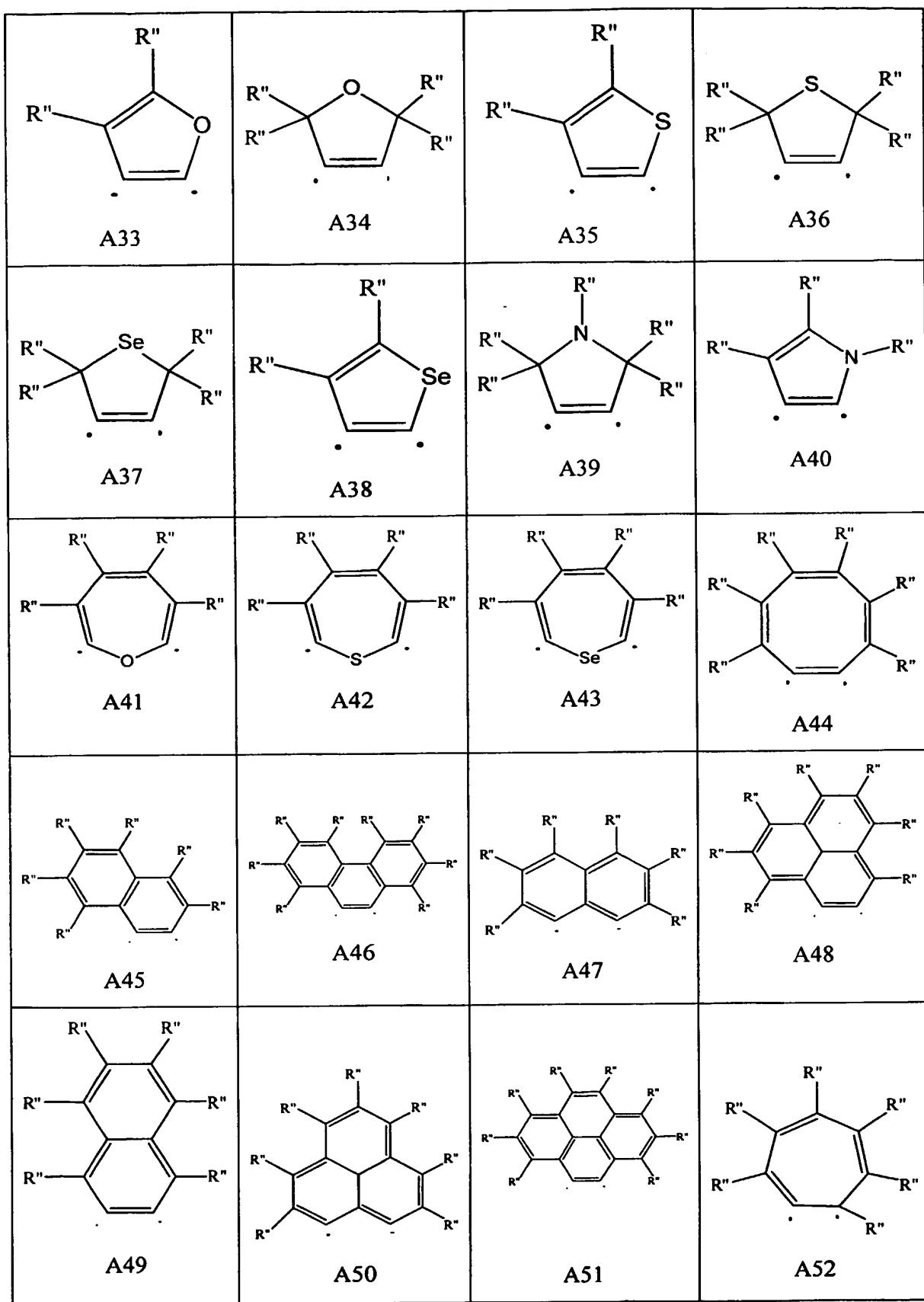
R'_2C , R'_2Si , R'_2Ge , $R'_2CCR'_2$, $R'_2CCR'_2CR'_2$, $R'_2CCR'_2CR'_2CR'_2$,
 $R'C=CR'$, $R'C=CR'CR'_2$, $R'_2CCR'=CR'CR'_2$, $R'C=CR'CR'=CR'$,
 $R'C=CR'CR'_2CR'_2$, $R'_2CSiR'_2$, $R'_2SiSiR'_2$, $R'_2CSiR'_2CR'_2$, $R'_2SiCR'_2SiR'_2$,
 $R'C=CR'SiR'_2$, $R'_2CGeR'_2$, $R'_2GeGeR'_2$, $R'_2CGeR'_2CR'_2$, $R'_2GeCR'_2GeR'_2$,
 $R'_2SiGeR'_2$, $R'C=CR'GeR'_2$, $R'B$, R'_2C-BR' , $R'_2C-BR'-CR'_2$, $R'N$, $R'P$, O ,

S, Se, C(=O)C(=O), R'₂CC(=O), R'₂CC(=O)CR'₂, R'₂C—O—CR'₂, R'₂CR'₂C—O—CR'₂CR'₂, R'₂C—O—CR'₂CR'₂, R'₂C—O—CR'=CR', R'₂C—S—CR'₂, R'₂CR'₂C—S—CR'₂CR'₂, R'₂C—S—CR'₂CR'₂, R'₂C—S—CR'=CR', R'₂C—Se—CR'₂, R'₂CR'₂C—Se—CR'₂CR'₂, R'₂C—Se—CR'₂CR'₂, R'₂C—Se—CR'=CR', R'₂C—N=CR', R'₂C—NR'—CR'₂, R'₂C—NR'—CR'₂CR'₂, R'₂C—NR'—CR'=CR', R'₂CR'₂C—NR'—CR'₂CR'₂, R'₂C—P=CR', and R'₂C—PR'—CR'₂ where each R' is, independently, hydrogen, hydrocarbyl, substituted hydrocarbyl, halocarbyl or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbysiloxy, and two or more R' on the same carbon or adjacent R' may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent.

10. The compound of claim 6 where A is represented by the formulae:

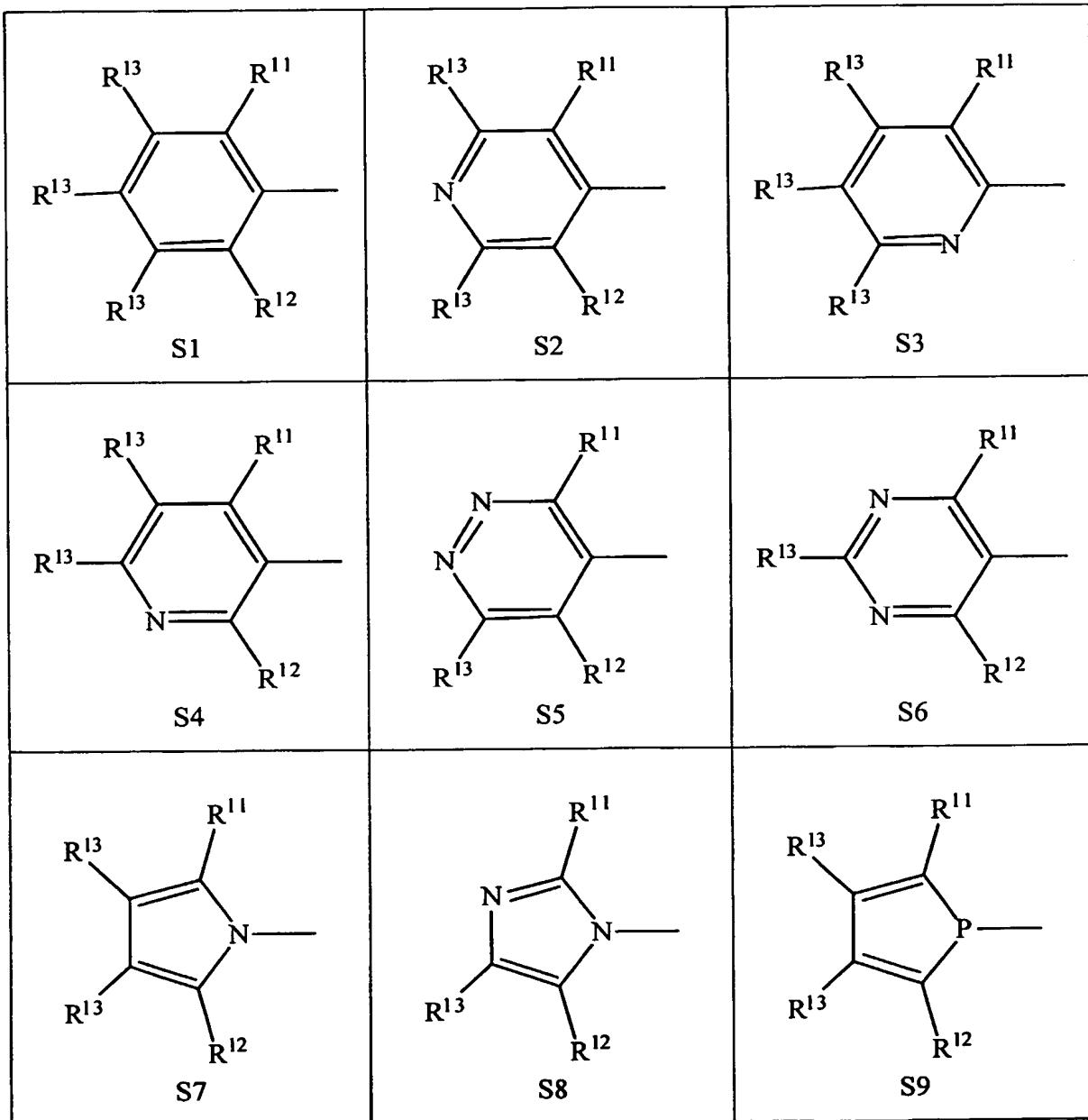


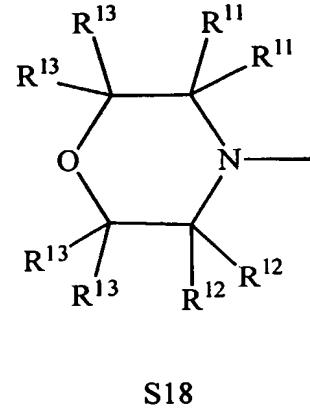
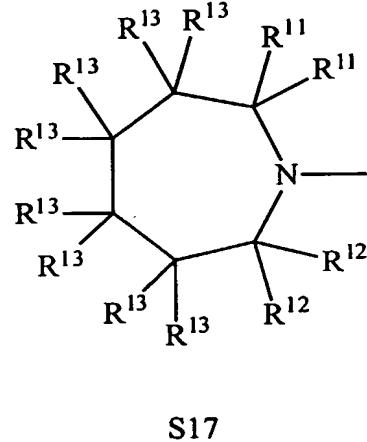
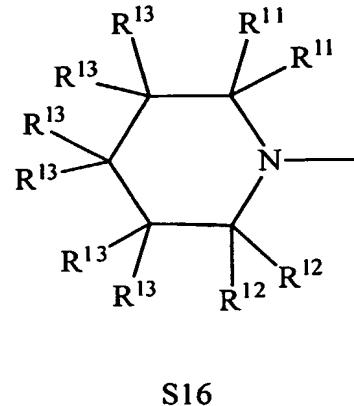
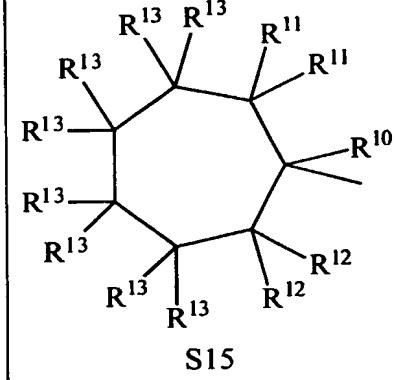
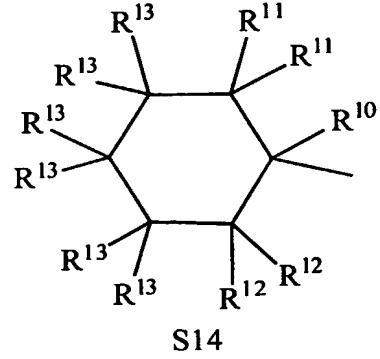
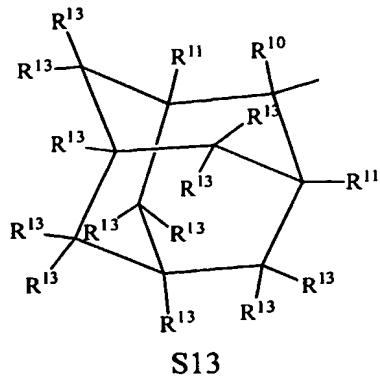
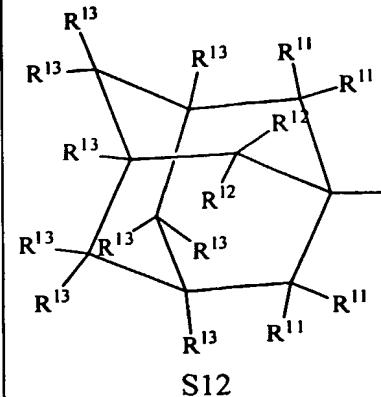
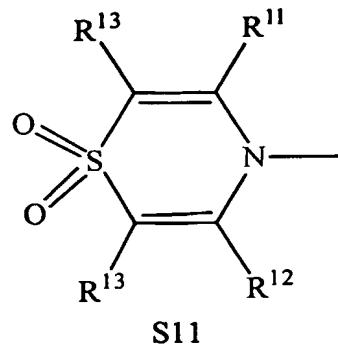
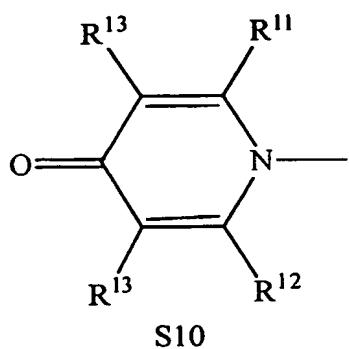


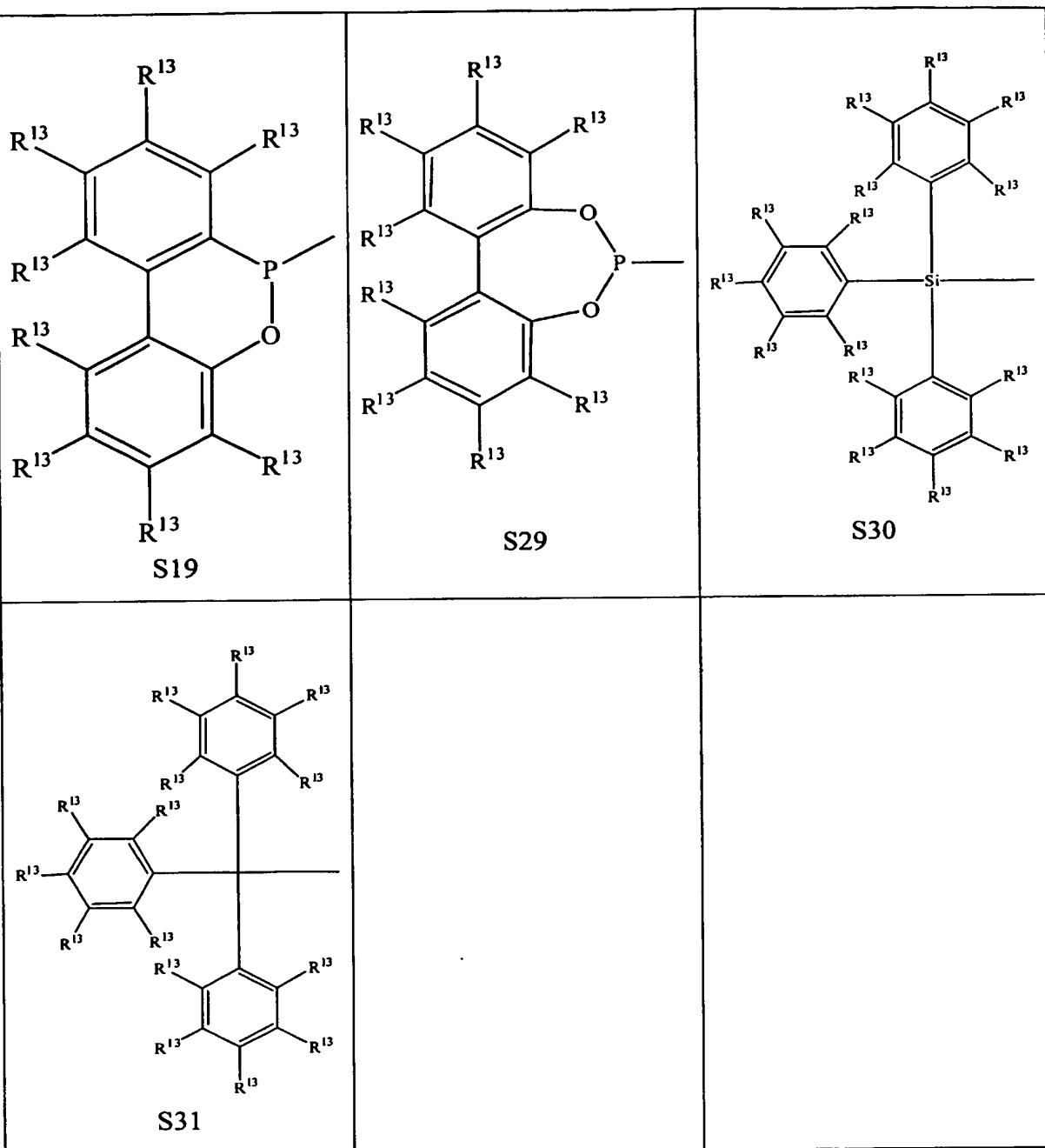


where R" is, independently, hydrogen, hydrocarbyl, substituted hydrocarbyl, halocarbyl or substituted halocarbyl provided that a substituted hydrocarbyl is not substituted with trihydrocarbysiloxy, and two or more R" on the same carbon or adjacent R" may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent and where the bonding points are designated by the dots.

11. The compound of claim 6 or 7 where R¹ is represented by the formulae:







where R^{10} , R^{11} , R^{12} , and R^{13} are, independently, hydrogen, hydrocarbyl radicals, substituted hydrocarbyl radicals, halocarbyl radicals, substituted halocarbyl radicals, silylcarbyl radicals or polar radicals and R^{10} , R^{11} , R^{12} , and/or R^{13} on the same atom or adjacent atoms may join together to form a substituted or unsubstituted saturated, partially unsaturated or aromatic cyclic or polycyclic ring structure.

12. The composition of claim 11 wherein R^{10} , R^{11} , R^{12} , and R^{13} are, independently selected from the group consisting of: hydrogen, methyl, ethyl, ethenyl, ethynyl and all isomers of propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, eicosyl, heneicosyl, docosyl, tricosyl, tetracosyl, pentacosyl, hexacosyl, heptacosyl, octacosyl, nonacosyl, triacontyl, propenyl, butenyl, pentenyl, hexenyl, heptenyl, octenyl, nonenyl, decenyl, undecenyl, dodecenyl, tridecenyl, tetradecenyl, pentadecenyl, hexadecenyl, heptadecenyl, octadecenyl, nonadecenyl, eicosenyl, heneicosenyl, docosenyl, tricosenyl, tetracosenyl, pentacosenyl, hexacosenyl, heptacosenyl, octacosenyl, nonacosenyl, triacontenyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonynyl, decynyl, undecynyl, dodecynyl, tridecynyl, tetradecynyl, pentadecynyl, hexadecynyl, nonadecynyl, eicosynyl, heneicosynyl, docosynyl, tricosynyl, tetracosynyl, pentacosynyl, hexacosynyl, heptacosynyl, octacosynyl, nonacosynyl, triacontynyl, perfluoropropyl, perfluorobutyl, perfluoropentyl, perfluorohexyl, perfluoroheptyl, perfluoroctyl, perfluorononyl, perfluorodecyl, perfluoroundecyl, perfluorododecyl, perfluorotridecyl, perfluorotetradecyl, perfluoropentadecyl, perfluorohexadecyl, perfluoroheptadecyl, perfluoroctadecyl, perfluorononadecyl, perfluoroeicosyl, perfluoroheneicosyl, perfluorodocosyl, perfluorotricosyl, perfluorotetracosyl, perfluoropentacosyl, perfluorohexacosyl, perfluoroheptacosyl, perfluoroctacosyl, perfluorononacosyl, perfluorotriacontyl, perfluorobutenyl, perfluorobutynyl, fluoropropyl, fluorobutyl, fluoropentyl, fluorohexyl, fluoroheptyl, fluoroctyl, fluorononyl, fluorodecyl, fluoroundecyl, fluorododecyl, fluorotridecyl, fluorotetradecyl, fluoropentadecyl, fluorohexadecyl, fluorheptadecyl, fluorooctadecyl, fluorononadecyl, fluoroeicosyl, fluoroheneicosyl, fluorodocosyl, fluorotricosyl, fluorotetracosyl, fluoropentacosyl, fluorohexacosyl, fluorheptacosyl, fluorooctacosyl, fluorononacosyl, fluorotriacontyl, difluorobutyl, trifluorobutyl, tetrafluorobutyl, pentafluorobutyl, hexafluorobutyl, heptafluorobutyl, octafluorobutyl, methoxypropyl, methoxybutyl, methoxypentyl, methoxyhexyl, methoxyheptyl, methoxyoctyl, methoxynonyl, methoxydecyl,

methoxyundecyl, methoxydodecyl, methoxytridecyl, methoxytetradecyl,
methoxypentadecyl, methoxyhexadecyl, methoxyheptadecyl,
methoxyoctadecyl, methoxynonadecyl, methoxyeicosyl, methoxyheneicosyl,
methoxydocosyl, methoxytricosyl, methoxytetracosyl, methoxypentacosyl,
methoxyhexacosyl, methoxyheptacosyl, methoxyoctacosyl,
methoxynonacosyl, methoxytriacontyl, butoxypropyl, butoxybutyl,
butoxypentyl, butoxyhexyl, butoxyheptyl, butoxyoctyl, butoxynonyl,
butoxydecyl, butoxyundecyl, butoxydodecyl, butoxytridecyl,
butoxytetradecyl, butoxypentadecyl, butoxyhexadecyl, butoxyheptadecyl,
butoxyoctadecyl, butoxynonadecyl, butoxyeicosyl, butoxyheneicosyl,
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butoxyhexacosyl, butoxyheptacosyl, butoxyoctacosyl, butoxynonacosyl,
butoxytriacontyl, dimethylaminopropyl, dimethylaminobutyl,
dimethylaminopentyl, dimethylaminohexyl, dimethylaminoheptyl,
dimethylaminoctyl, dimethylaminononyl, dimethylaminodecyl,
dimethylaminoundecyl, dimethylaminododecyl, dimethylaminotridecyl,
dimethylaminotetradecyl, dimethylaminopentadecyl,
dimethylaminohexadecyl, dimethylaminoheptadecyl,
dimethylaminoctadecyl, dimethylaminononadecyl, dimethylaminoeicosyl,
dimethylaminoheneicosyl, dimethylaminodocosyl, dimethylaminotricosyl,
dimethylaminotetracosyl, dimethylaminopentacosyl, dimethylaminohexacosyl,
dimethylaminoheptacosyl, dimethylaminoctacosyl, dimethylaminononacosyl,
dimethylaminotriacontyl, trimethylsilylpropyl, trimethylsilylbutyl,
trimethylsilylpentyl, trimethylsilylhexyl, trimethylsilylheptyl,
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trimethylsilyltetradecyl, trimethylsilylpentadecyl, trimethylsilylhexadecyl,
trimethylsilylheptadecyl, trimethylsilyloctadecyl, trimethylsilylnonadecyl,
trimethylsilyleicosyl, trimethylsilylheneicosyl, trimethylsilyldocosyl,
trimethylsilyltricosyl, trimethylsilyltetracosyl, trimethylsilylpentacosyl,
trimethylsilylhexacosyl, trimethylsilylheptacosyl, trimethylsilyloctacosyl,
trimethylsilylnonacosyl, trimethylsilyltriacytanyl, phenyl, methylphenyl,
dimethylphenyl, trimethylphenyl, tetramethylphenyl, pentamethylphenyl
ethylphenyl, diethylphenyl, triethylphenyl, tetraethylphenyl, pentaethylphenyl,

propylphenyl, dipropylphenyl, tripropylphenyl, tetrapropylphenyl,
pentapropylphenyl butylphenyl, dibutylphenyl, tributylphenyl,
tetrabutylphenyl, pentabutylphenyl, hexylphenyl, dihexylphenyl,
trihexylphenyl, tetrahexylphenyl, pentahexylphenyl, dimethylethylphenyl,
dimethylpropylphenyl, dimethylbutylphenyl, dimethylpentylphenyl,
dimethylhexylphenyl, diethylmethylphenyl, diethylpropylphenyl,
diethylbutylphenyl, diethylpentylphenyl, diethylhexylphenyl,
dipropylmethylphenyl, dipropylethylphenyl, dipropylbutylphenyl,
dipropylpentylphenyl, dipropylhexylphenyl, dibutylmethylphenyl,
dibutylethylphenyl, dibutylpropylphenyl, dibutylpentylphenyl,
dibutylhexylphenyl, methylethylphenyl, methylpropylphenyl,
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ethylpropylphenyl, ethylbutylphenyl, ethylpentylphenyl, ethylhexylphenyl,
propylbutylphenyl, propylpentylphenyl, propylhexylphenyl,
butylpentylphenyl, butylhexylphenyl, trimethylsilylphenyl,
trimethylgermylphenyl, trifluoromethylphenyl, bis(trifluoromethyl)phenyl,
halophenyl, dihalophenyl, trihalophenyl, tetrahalophenyl, pentahalophenyl;
halomethylphenyl, dihalomethylphenyl, trihalomethylphenyl,
tetrahalomethylphenyl, haloethylphenyl, dihaloethylphenyl,
trihaloethylphenyl, tetrahaloethylphenyl, halopropylphenyl,
dihalopropylphenyl, trihalopropylphenyl, tetrahalopropylphenyl,
halobutylphenyl, dihalobutylphenyl, trihalobutylphenyl, tetrahalobutylphenyl,
dihalodimethylphenyl, dihalo(trifluoromethyl)phenyl (where halo is,
independently, fluoro, chloro, bromo and iodo), benzyl, methylbenzyl,
dimethylbenzyl, trimethylbenzyl, tetramethylbenzyl, pentamethylbenzyl
ethylbenzyl, diethylbenzyl, triethylbenzyl, tetraethylbenzyl, pentaethylbenzyl,
propylbenzyl, dipropylbenzyl, tripropylbenzyl, tetrapropylbenzyl,
pentapropylbenzyl butylbenzyl, dibutylbenzyl, tributylbenzyl,
tetrabutylbenzyl, pentabutylbenzyl, hexylbenzyl, dihexylbenzyl,
trihexylbenzyl, tetrahexylbenzyl, pentahexylbenzyl, dimethylethylbenzyl,
dimethylpropylbenzyl, dimethylbutylbenzyl, dimethylpentylbenzyl,
dimethylhexylbenzyl, diethylmethylbenzyl, diethylpropylbenzyl,
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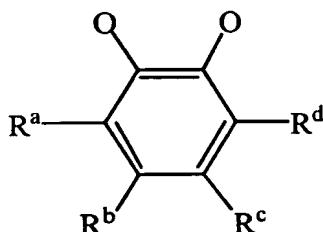
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methylbutylbenzyl, methylpentylbenzyl, methylhexylbenzyl,
ethylpropylbenzyl, ethylbutylbenzyl, ethylpentylbenzyl, ethylhexylbenzyl,
propylbutylbenzyl, propylpentylbenzyl, propylhexylbenzyl, butylpentylbenzyl,
butylhexylbenzyl, trimethylsilylbenzyl, bis(trimethylsilyl)benzyl,
trimethylgermylbenzyl, diphenylmethyl, trimethylsilyl, trimethylgermyl,
trimethylstannyl, trimethylplumbyl, triethylsilyl, triethylgermyl,
dimethylethylsilyl, dimethylethylgermyl, diethylmethylsilyl,
diethylmethylgermyl, triphenylsilyl, triphenylgermyl, tripropylsilyl,
tripropylgermyl, tributylsilyl, tributylgermyl, tris(trifluormethyl)silyl,
bis(perfluoromethyl)methylsilyl, pyrenyl, aceanthrylenyl, acenaphthylene,
acephenanthrylenyl, azulenyl biphenylenyl, chrysenyl, coronenyl,
fluoranthenyl, fluorenyl, heptacenyl, heptalenyl, heptaphenyl, hexacenyl,
hexaphenyl, *as*-indacenyl, *s*-indecenyl, indenyl, ovalenyl, pentacenyl,
pentalenyl, pentaphenyl, perylenyl, phenalenyl, phenanthrenyl, picenyl,
pleiadetyl, pyranhrenyl, rubicenyl, naphthacenyl, tetraphenylenyl,
trinaphthylene, triphenylene, hexahelicenyl, naphthyl, anthracenyl,
dibenza[*a,b*]anthracenyl, indanyl, acenaphthenyl, cholanthrenyl, aceanthrenyl,
acephenanthrenyl, 1,2,3,4-tetrahydronaphthalene, fulleretyl, cyclopropyl,
cyclobutyl, cyclopentyl, cyclohexyl, cyclohexenyl, cycloheptyl, cyclooctyl,
cyclononyl, cyclodecyl, cycloundecyl, and cyclododecyl, dimethylcyclohexyl,
norbornyl, norbornenyl, adamanyl, cubanyl, prisanyl, spiro[4,5]decanyl,
biphenyl, bicyclopentyl, terphenyl, quatercyclohexanyl, binaphthyl,
binorbornyl, phenyl-terphenyl, 1,1-diphenylmethano, 1,1-dinaphthyletheno,
acridarsinyl, acridinyl, acridophosphinyl, 1*H*-acrindolinyl, anthrazinyl,
anthyridinyl, arsanthridinyl, arsindolyl, arsindolizinyl, arsinolinyl,
arsinolizinyl, benzofuranyl, carbazolyl, β -carbolinyl, chromenyl,
thiochromenyl, cinnolinyl, furanyl, imidazolyl, indazolyl, indolyl, indolizinyl,
isoarsindolyl, isoarsinolinyl, isobenzofuranyl, isochromenyl,
isothiochromenyl, isoindolyl, isophosphindolyl, isophosphinolinyl,
isoquinolinyl, isothiazolyl, isoxazolyl, naphthyridinyl, oxazolyl, perimidinyl,

phenanthrazinyl, phenanthridinyl, phenanthrolinyl, phenazinyl,
phosphanthridinyl, phosphindolyl, phosphindolizinyl, phosphinolizinyl,
phthalazinyl, pteridinyl, phthaloperinyl, purinyl, pyranyl, thiopyranal,
pyrazinyl, pyrazolyl, pyridazinyl, pyridinyl, pyrindinyl, pyrimidinyl, pyrrolyl,
pyrrolizinyl, quinazolinyl, quindolinyl, 1*H*-quinindolinyl, quinolinyl,
quinolizinyl, quinoxaliny, selenophenyl, thebenidinyl, thiazolyl, thiophenyl,
triphenodioxazinyl, triphenodithiazinyl, xanthenyl, chromanyl, thiochromanyl,
imidazolidinyl, indolinyl, isochromanyl, isoiochromanyl, isoindolinyl,
morpholinyl, piperazinyl, piperidinyl, pyrozolidinyl, pyrrolidinyl,
quinuclidinyl, dimethylacridarsinyl, dimethylacridinyl,
dimethylacridophosphinyl, dimethyl-1*H*-acrindolinyl, dimethylanthrazinyl,
dimethylanthyridinyl, dimethylarsanthridinyl, dimethylarsindolyl,
dimethylarsindolizinyl, dimethylarsinoliny, dimethylarsinolizinyl,
dibutylbenzofuranyl, dibutylcarbazolyl, dibutyl- β -carbolinyl,
dibutylchromenyl, dibutylthiochromenyl, butylcinnolinyl, dibutylfuranyl,
dimethylimidazolyl, dimethylindazolyl, dipropylindolyl, dipropylindolizinyl,
dimethylisoarsindolyl, methylisoarsinoliny, dimethylisobenzofuranyl,
diphenylisochromenyl, dibutylisothiochromenyl, phenylisoindolyl,
butylisophosphindolyl, dibutylisophosphinoliny, dimethylisoquinolinyl,
methylisothiazolyl, butylisoxazolyl, butylnaphthyridinyl, dimethyloxazolyl,
methylphenylperimidinyl, tetrabutylphenanthrazinyl, propylphenanthridinyl,
dibutylphenanthrolinyl, tetramethylphenazinyl, butylphosphanthridinyl,
phenylphosphindolyl, dimethylphosphindolizinyl, methylphosphinolizinyl,
dibutylphthalazinyl, trimethylpteridinyl, methylphthaloperinyl,
dimethylpurinyl, dibutylpyranyl, dibutylthiopyranal, trimethylpyrazinyl,
phenylpyrazolyl, dipropylpyridazinyl, dimethylpyridinyl,
methylpropylpyrindinyl, triethylpyrimidinyl, dibutylpyrrolyl,
diethylpyrrolizinyl, dibutylquinazolinyl, dibutylquindolinyl, dibutyl-1*H*-
quinindolinyl, dimethylquinolinyl, propylquinolizinyl, methylquinoxaliny,
methylbutylselenophenyl, methylthebenidinyl, dimethylthiazolyl,
trimethylthiophenyl, dibutyltriphenodioxazinyl, dibutyltriphenodithiazinyl,
dibutylxanthenyl, trimethylchromanyl, dimethylthiochromanyl,
dimethylimidazolidinyl, dimethylindolinyl, dibutylisochromanyl,

dibutylisothiocromanyl, phenylisoindolinyl, dibutylmorpholinyl, dimethylpiperazinyl, dimethylpiperidinyl, dimethylpyrozolidinyl, dimethylpyrrolidinyl, bipyridyl, pyrido[2,1,6-*de*]quinolizinyl, hexamethylquinuclidinyl, 5,7-dioxa-6-phosphadibenzo[*a,c*]cycloheptene-6-oxide, 9-oxa-10-phosphaphenanthrene-10-oxide, methoxy, ethoxy, propoxy, butoxy, pentoxy, phenoxy, dimethylphenoxy, dimethylamino, diethylamino, dipropylamino, methylethylamino, methylpropylamino, ethylpropylamino, diphenylamino, methylphenylamino, and ethylphenylamino.

13. The compound of claim 11 where at least one R¹¹ and/or at least one R¹² are independently methyl, ethyl, *n*-propyl, *iso*-propyl, *n*-butyl, *sec*-butyl, *iso*-butyl, *tert*-butyl, phenyl, napthyl, diphenylmethyl, or trifluoromethyl.

14. The compound of claim any of the above claims wherein X is represented by the formulae:



where each O is bonded to M, and where R^a, R^b, R^c and R^d are, independently, selected from the group consisting of hydrogen, methyl, ethyl, ethenyl, ethynyl, and all isomers of propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, eicosyl, heneicosyl, docosyl, tricosyl, tetracosyl, pentacosyl, hexacosyl, heptacosyl, octacosyl, nonacosyl, triacontyl, propenyl, butenyl, pentenyl, hexenyl, heptenyl, octenyl, nonenyl, decenyl, undecenyl, dodecenyl, tridecenyl, tetradecenyl, pentadecenyl, hexadecenyl, heptadecenyl, octadecenyl, nonadecenyl, eicosenyl, heneicosenyl, docosenyl, tricosenyl, tetracosenyl, pentacosenyl, hexacosenyl, heptacosenyl, octacosenyl, nonacosenyl, triacontenyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonynyl, decynyl, undecynyl, dodecynyl, tridecynyl,

tetradecynyl, pentadecynyl, hexadecynyl, heptadecynyl, octadecynyl, nonadecynyl, eicosynyl, heneicosynyl, docosynyl, tricosynyl, tetracosynyl, pentacosynyl, hexacosynyl, heptacosynyl, octacosynyl, nonacosynyl, and triacontynyl, phenyl, napthyl, anthracenyl, pyrenyl, biphenyl, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclooctyl, cyclononyl, cyclodecyl, cycloundecyl, cyclododecyl, fluoro, chloro, bromo, iodo, trimethylsilyl, triethylsilyl, tripropylsilyl, dimethylethylsilyl, diethylmethylsilyl, trimethoxysilyl, tirethoxysilyl, tripropoxysilyl, methoxy, ethoxy, propoxy, butoxy, phenoxy, or a nitro, carboxylic acid, ester, ketone (excluding 1,2-diketones) or aldehyde group; and optionally, R^a, R^b, R^c or R^d can connect to form substituted or unsubstituted, saturated, partially unsaturated or aromatic ring structures.

15. The compound of claim 1 where the transition metal compound is [1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-dimethylcatecholate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],

[1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],

[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butyl-6-chlorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butyl-6-nitrocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,4,6-tri-*iso*-propylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,6-di-*iso*-propylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],

[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate].

[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-
butylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
chlorocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-
4,5-dichlorocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
fluorocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-
4,5-difluorocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
methoxycatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-
4,5-dimethoxycatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
iso-propylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
cyclohexylcatecholate],

[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],

[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-dimethylcatecholate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-fluorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],

[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],

[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],

[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[3,6-di-*iso*-propylcatecholate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1,4-bis-(2,6-dimethylphenyl)-1,4-diaza-1,3-butadiene] nickel(II)
[1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-
butylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
chlorocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-
dichlorocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
fluorocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-
difluorocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-
methoxycatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-
dimethoxycatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-
propylcatecholate],

[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-dimethylphenylimino)acenaphthene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],

[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*iso*-propylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-dimethylcatecholate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,8-tetra-*tert*-butylbibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,6-dimethylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*iso*-propylcatecholate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,8-tetra-*tert*-butylbibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,6-dimethylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,6-di-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [3,5-dimethylcatecholate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene]
nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-bromocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dibromocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-
butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],

[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2,3-dimethyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],

[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],

[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [3,6-di-*iso*-propylcatecholate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,8-tetra-*tert*-butylbibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexachlorbibenzo[1,4]dioxine-2,3-diolate],
[2-methyl-3-propyl-1-(2,5-di-*tert*-butylphenyl)-4-(2,6-di-*iso*-propylphenyl)-1,4-diaza-1,3-butadiene] nickel(II) [1,4,6,7,8,9-hexabrombibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-chlorocatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene] nickel(II) [3,6-di-*tert*-butyl-4-fluorocatecholate],

[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4,5-difluorocatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4-methoxycatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*tert*-butyl-4-cyclohexylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butyl-6-chlorocatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,5-di-*tert*-butyl-6-nitrocatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,4,6-tri-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [3,6-di-*iso*-propylcatecholate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,8-tetra-*tert*-butyldibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,7,8,9-hexachlorodibenzo[1,4]dioxine-2,3-diolate],
[1-(2,5-di-*tert*-butylphenylimino)-2-(2,6-di-*iso*-propylphenylimino)acenaphthene]
nickel(II) [1,4,6,7,8,9-hexabromodibenzo[1,4]dioxine-2,3-diolate],
[1,2-bis-(2,6-dimethylphenylimino)-cyclohexane] nickel(II) [3,6-di-*tert*-
butylcatecholate],
[2,3-bis-(2,6-dimethylphenylimino)-[1,4]dithiane] nickel(II) [3,6-di-*tert*-
butylcatecholate],
[2,3-bis-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-
butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-
butylcatecholate],

[2,3-bis-(2,6-dimethylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-dimethylphenylimino)-[1,4]diazepane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-methyl-2,3-bis-(2,6-dimethylphenylimino)-cyclopentane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-dimethylphenylimino)-tetrahydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-dimethylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)-cyclohexane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-[1,4]dithiane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-[1,4]diazepane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-cyclopentane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-tetrahydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,6-di-*iso*-propylphenylimino)-2-(2,6-dimethylphenylimino)-cyclohexane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-[1,4]dithiane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],

[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-[1,4]diazepane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-cyclopentane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-tetrahydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-(2,6-di-*iso*-propylphenylimino)-2-(2,5-di-*tert*-butylphenylimino)-cyclohexane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-[1,4]dithiane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-piperazine] nickel(II) [3,6-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-[1,4]diazepane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-cyclopentane] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-tetrahydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,6-di-*tert*-butylcatecholate],
[1,2-bis-(2,6-dimethylphenylimino)-cyclohexane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-dimethylphenylimino)-[1,4]dithiane] nickel(II) [3,5-di-*tert*-butylcatecholate],

[2,3-bis-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-dimethylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-dimethylphenylimino)-[1,4]diazepane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-methyl-2,3-bis-(2,6-dimethylphenylimino)-cyclopentane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-dimethylphenylimino)-tetrahydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-dimethylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,2-bis-(2,6-di-*iso*-propylphenylimino)-cyclohexane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-[1,4]dithiane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2,3-bis-(2,6-di-*iso*-propylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-[1,4]diazepane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-cyclopentane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-tetrahydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2,3-bis-(2,6-di-*iso*-propylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,6-di-*iso*-propylphenylimino)-2-(2,6-dimethylphenylimino)-cyclohexane] nickel(II) [3,5-di-*tert*-butylcatecholate],

[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-[1,4]dithiane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-[1,4]diazepane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-cyclopentane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-tetrahydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,6-dimethylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-(2,6-di-*iso*-propylphenylimino)-2-(2,5-di-*tert*-butylphenylimino)-cyclohexane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-[1,4]dithiane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-piperazine] nickel(II) [3,5-di-*tert*-butylcatecholate],
[2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-bicyclo[2.2.1]-heptane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1,4-dimethyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-[1,4]diazepane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[1-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-cyclopentane] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-tetrahydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],
[5-methyl-2-(2,6-di-*iso*-propylphenylimino)-3-(2,5-di-*tert*-butylphenylimino)-2,3-dihydrohydrofuran] nickel(II) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butyl catecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[benzenamine] cobalt(I) [3,5-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl catecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[benzenamine] cobalt(I) [3,6-di-*tert*-butylcatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I)
[3,6-di-*tert*-butyl-4-chlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine]
cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine]
cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine]
cobalt(I) [3,6-di-*tert*-butyl-4-chlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4-chlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[benzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-
chlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-*di*-
tert-butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine]
cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I)
[3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I)
[3,6-di-*tert*-butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-*di*-*tert*-
butyl-4,5-dichlorocatecholate],
N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-
butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[benzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dichlorocatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[benzenamine] cobalt(I) [3,6-di-*tert*-butyl-4-methoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidiyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidiyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidimethylidyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[benzenamine] cobalt(I) [3,6-di-*tert*-butyl-4,5-dimethoxycatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[2-methylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[2,6-dimethylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[2,4-dimethylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyliyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [4-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-methylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,6-dimethylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,4-dimethylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [4,5-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2-methylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,6-dimethylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],

N,N'-(2,6-pyridinediylidethyldyne)bis[2,4-dimethylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [4-cyclohexylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2-methylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
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N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propylbenzenamine] cobalt(I) [3,4,6-tri-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2-methylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],
N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-dimethylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4-dimethylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [3,6-di-*iso*-propylcatecholate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-methylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-dimethylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4-dimethylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-*iso*-propyl-benzenamine] cobalt(I) [naphthalene-2,3-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2,4,6-trimethylbenzenamine] cobalt(I) [phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediylidiethyldyne)bis[2-methylbenzenamine] cobalt(I) [phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-dimethylbenzenamine] cobalt(I)

[phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,4-dimethylbenzenamine] cobalt(I)

[phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propylbenzenamine] cobalt(I)

[phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2,6-di-*iso*-propyl-4-methylbenzenamine]

cobalt(I) [phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-4-methylbenzenamine] cobalt(I)

[phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-6-methylbenzenamine] cobalt(I)

[phenanthrene-9,10-diolate],

N,N'-(2,6-pyridinediyldiethylidyne)bis[2-*iso*-propyl-benzenamine] cobalt(I)

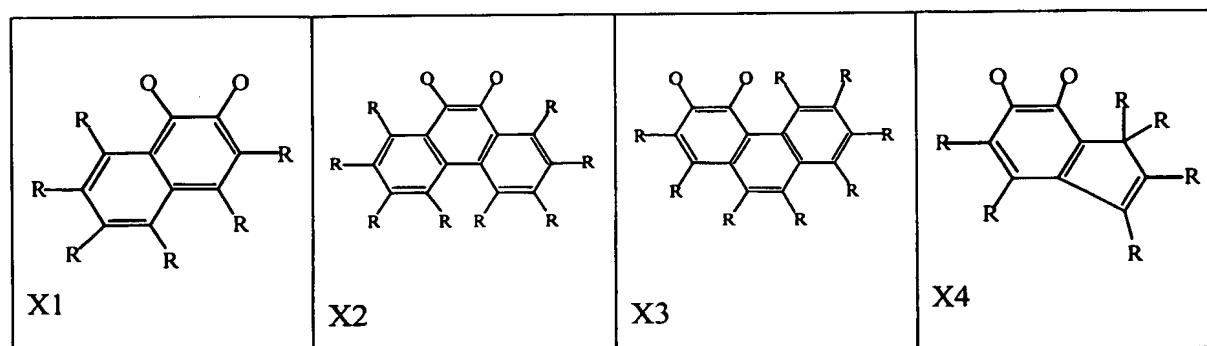
[phenanthrene-9,10-diolate],

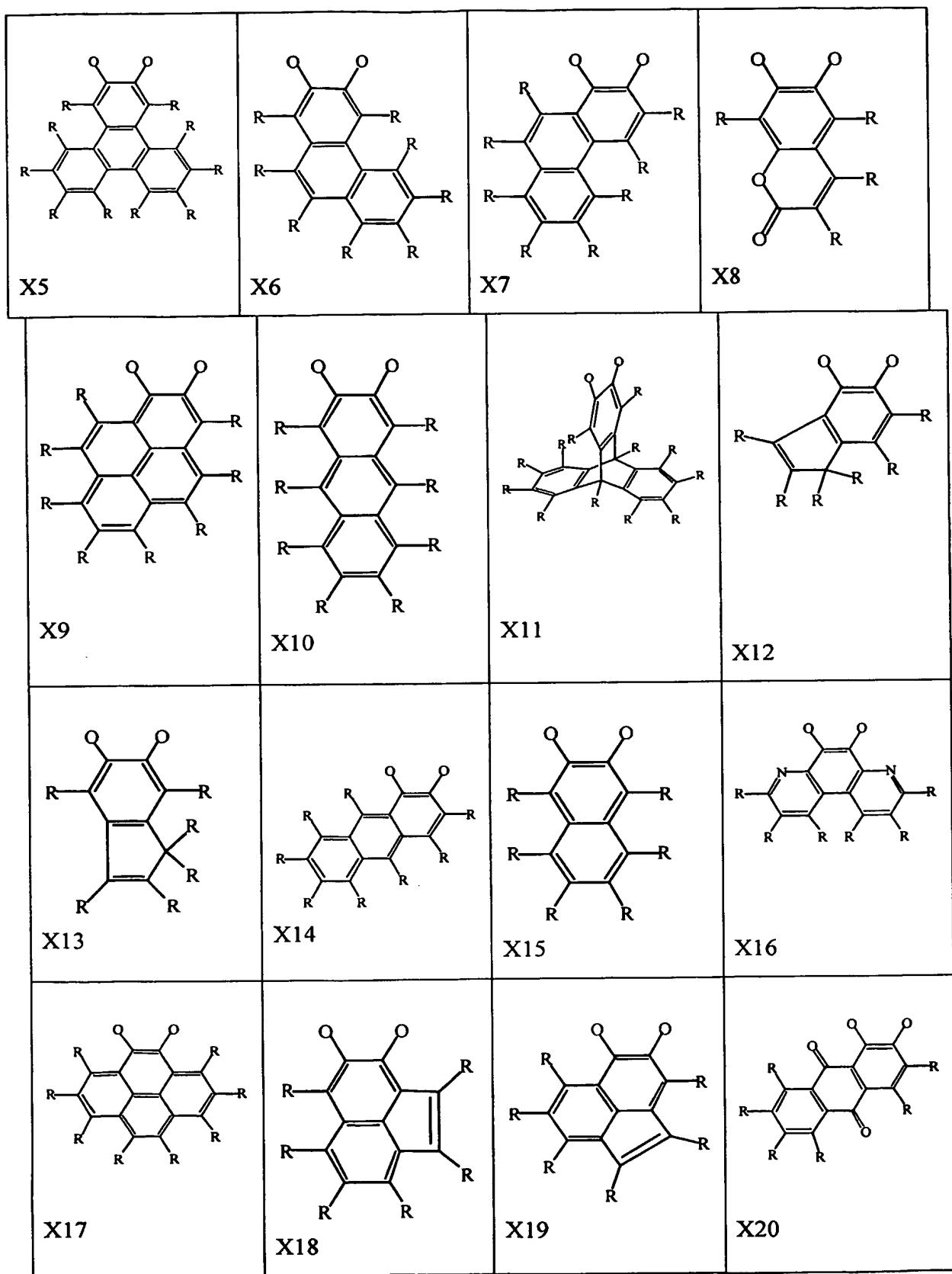
or any of the above compounds where "cobalt(I)" is replaced with platinum(II),

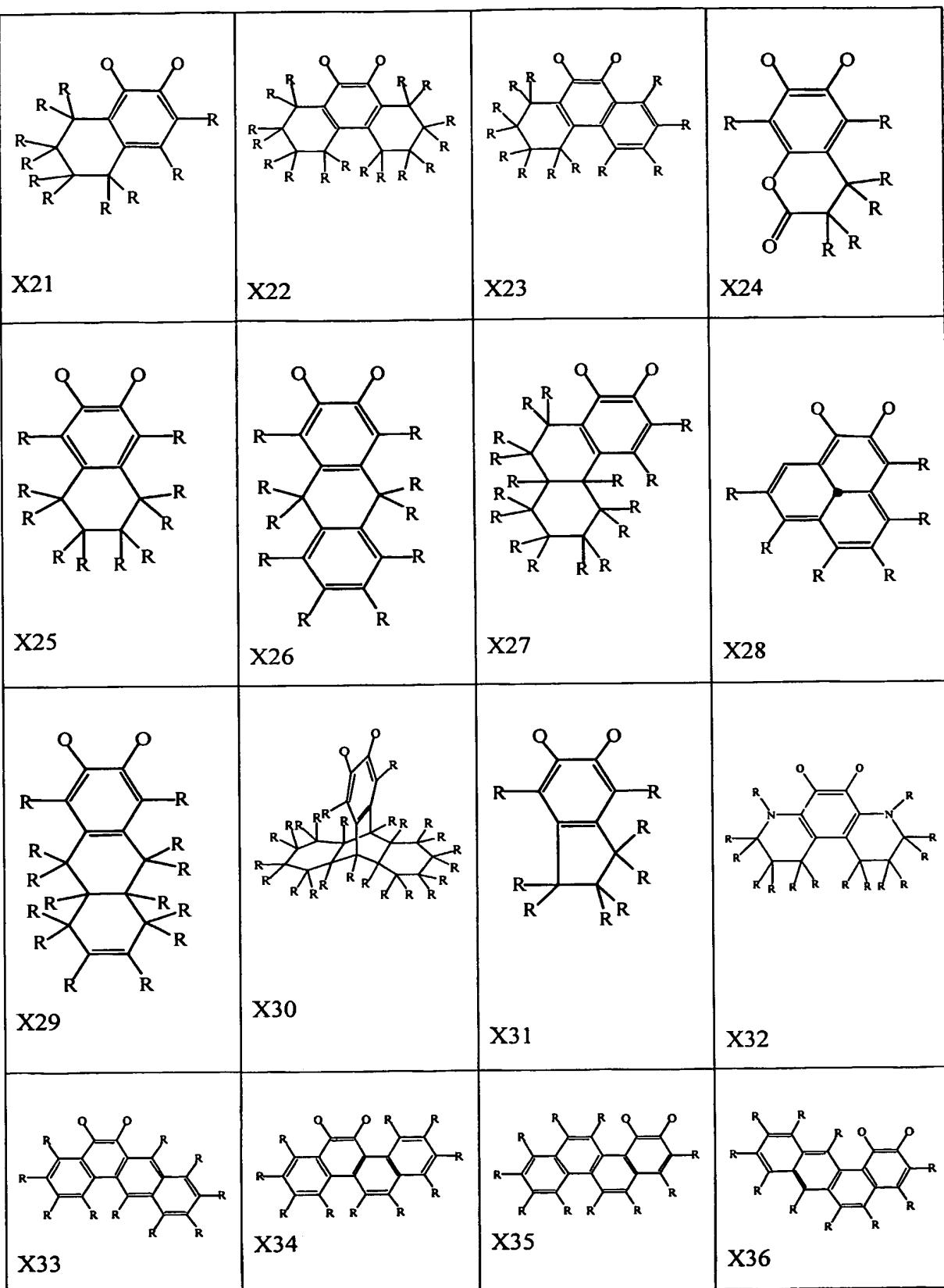
palladium(II), nickel(II), iron(II), copper(I), or cobalt(II) and where "nickel(II)" is

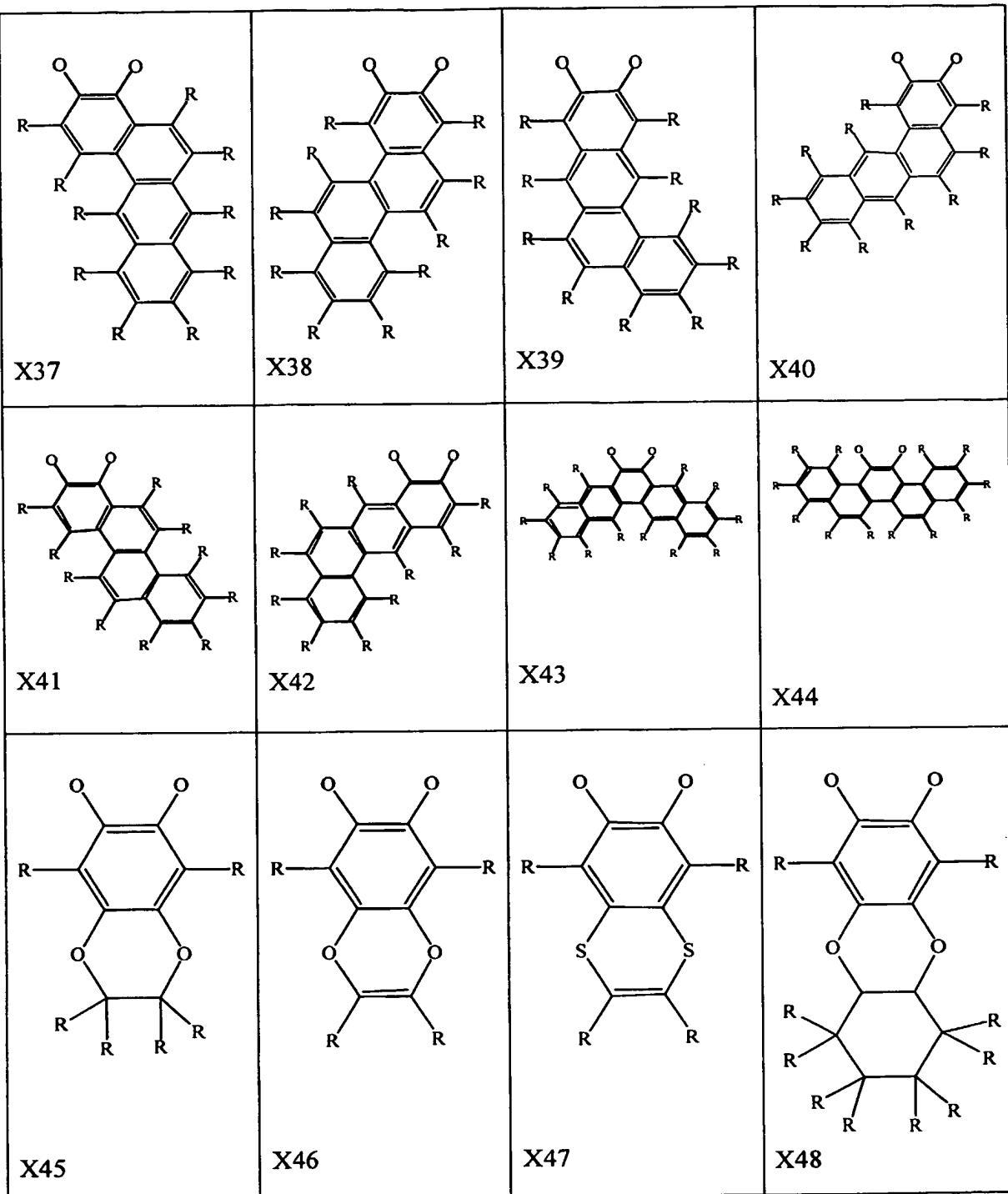
replaced with platinum(II), palladium(II), cobalt(I), iron(II), copper(I), or cobalt(II).

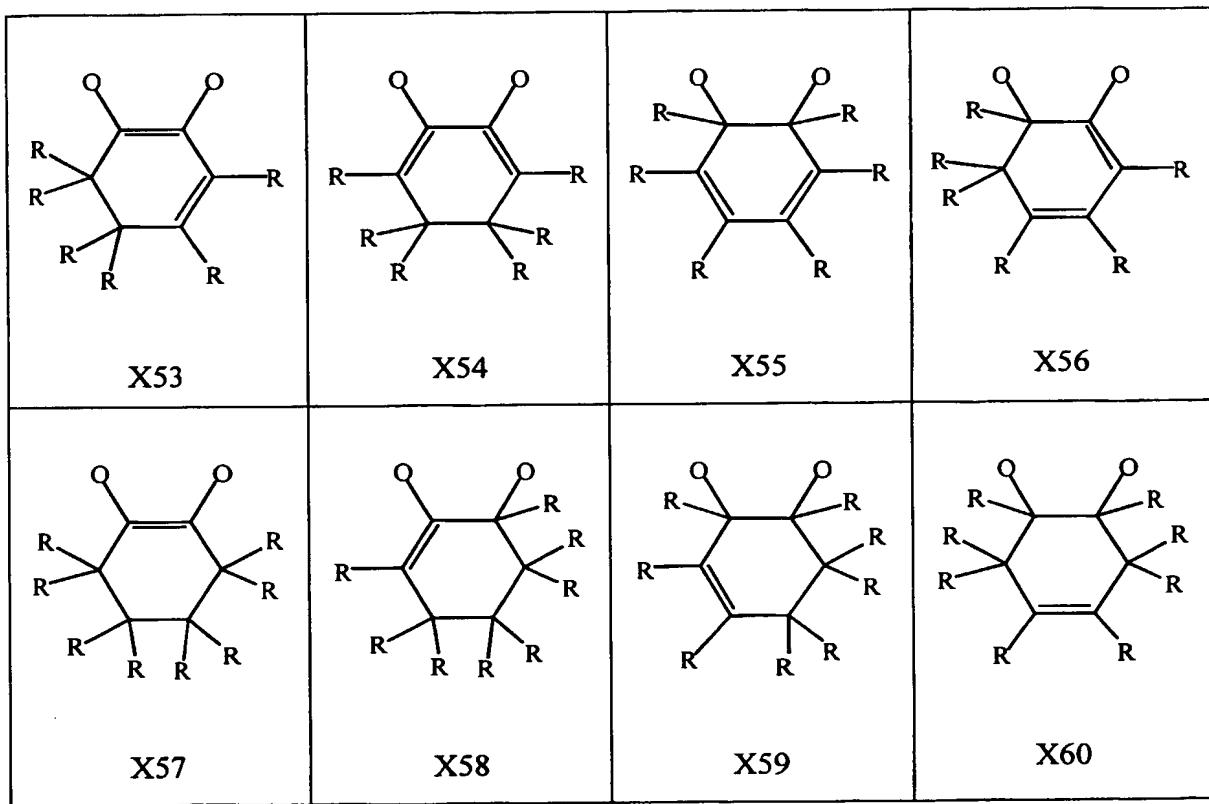
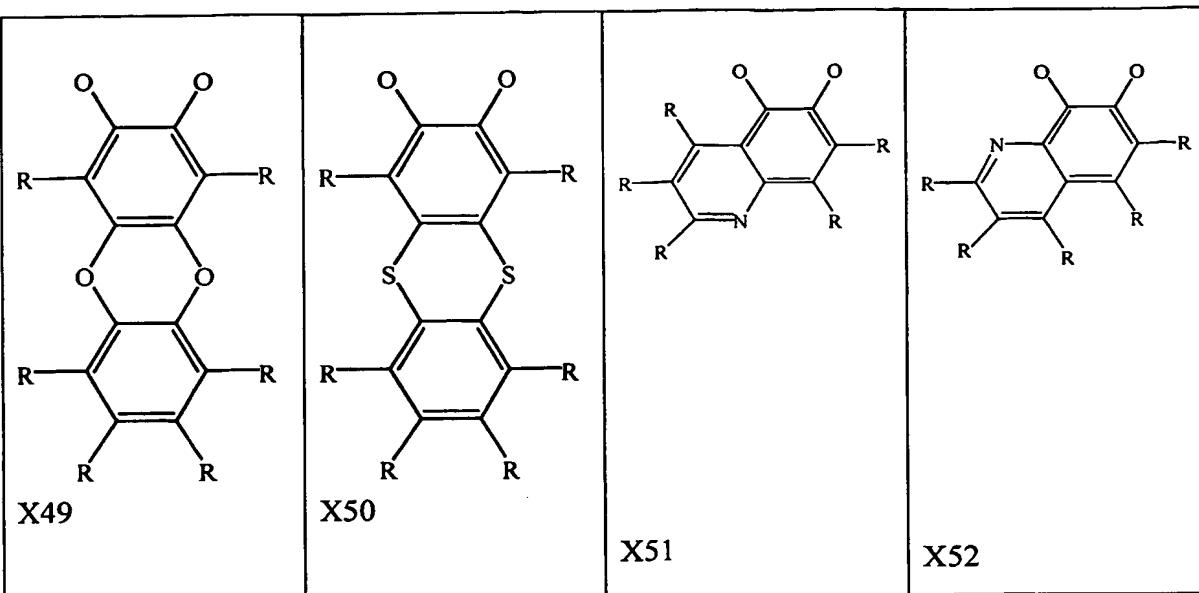
16. The compound of any of claims 1 to 13 where X is represented by the formulae:

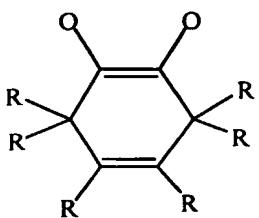




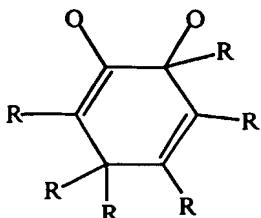




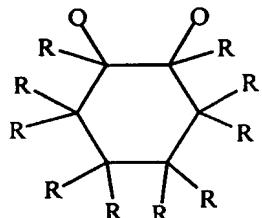




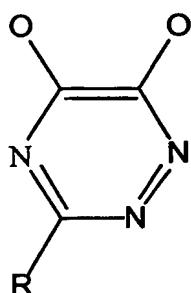
X61



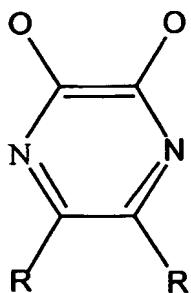
X62



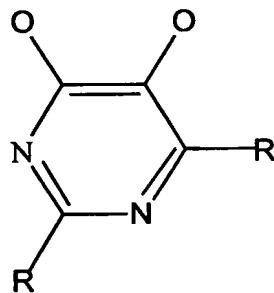
X63



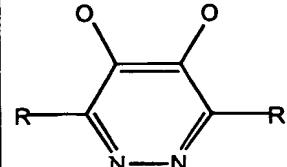
X64



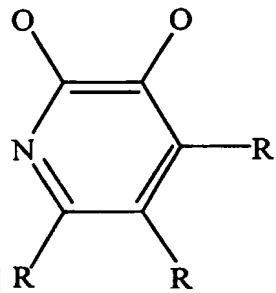
X65



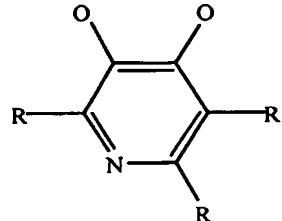
X66



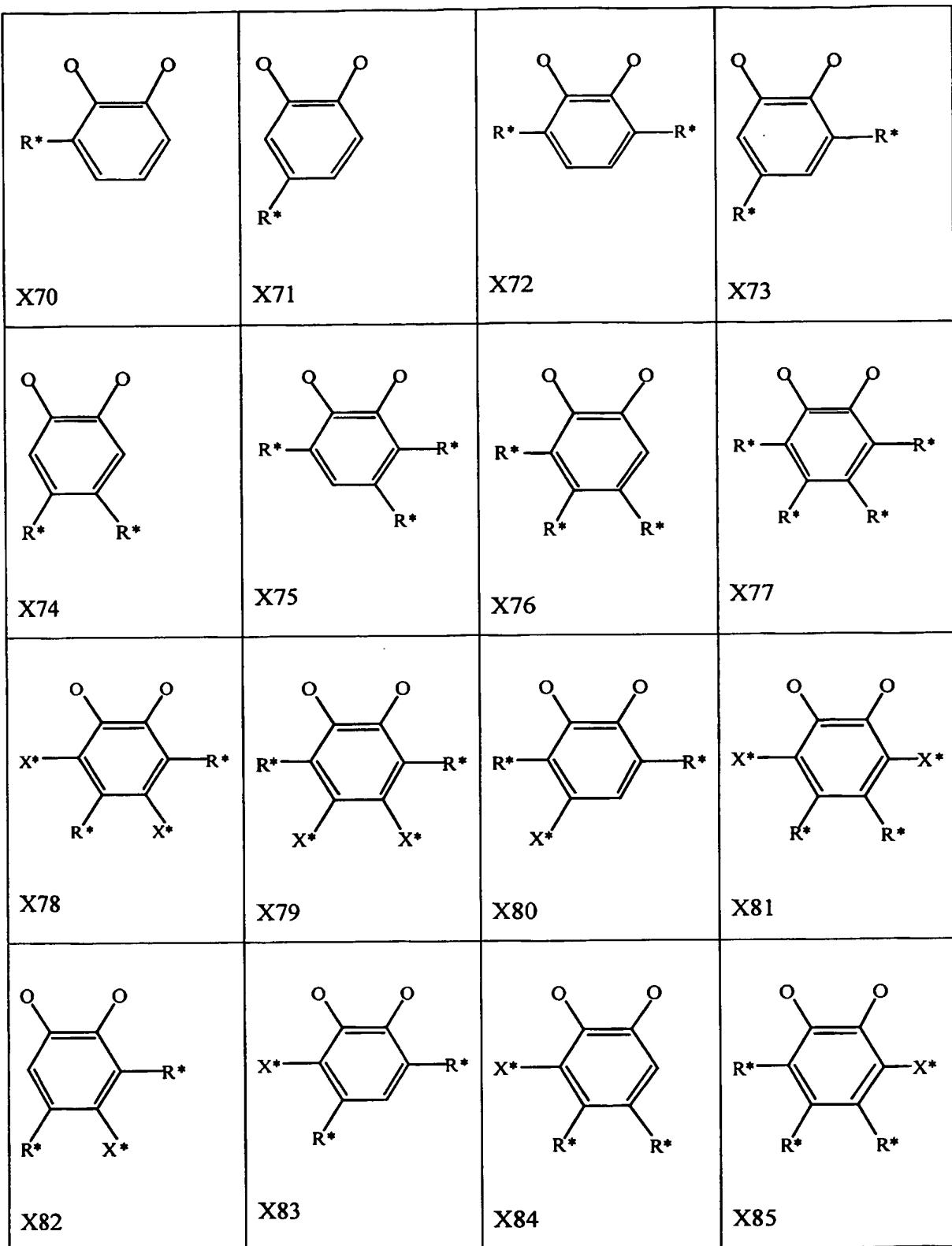
X67

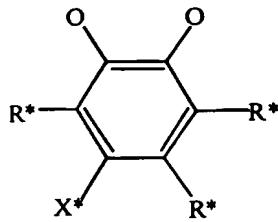
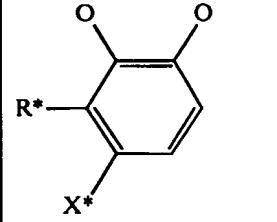
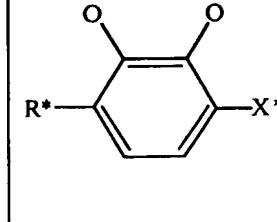
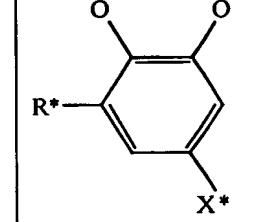
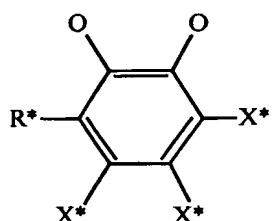
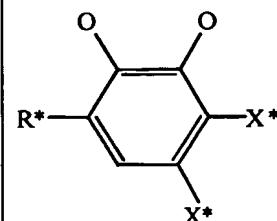
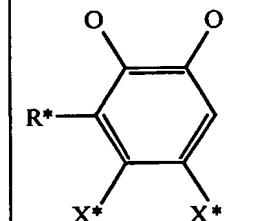
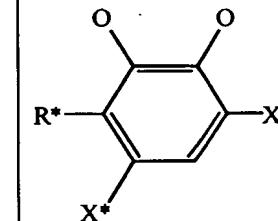
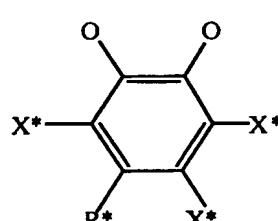
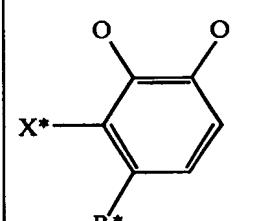
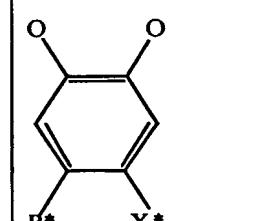
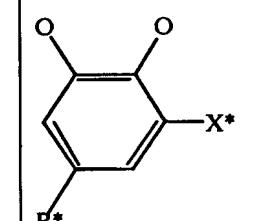
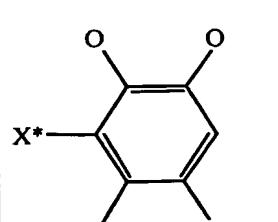
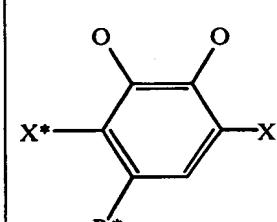
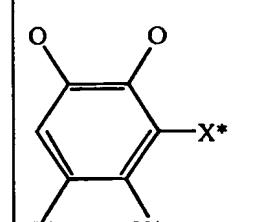


X68



X69



			
X86	X87	X88	X89
			
X90	X91	X92	X93
			
X94	X95	X96	X97
			
X98	X99	X100	

where each R is, independently, selected from the group consisting of hydrogen, methyl, ethyl, ethenyl, ethynyl and all isomers of propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl, pentadecyl, hexadecyl, heptadecyl, octadecyl, nonadecyl, eicosyl, heneicosyl, docosyl, tricosyl, tetracosyl, pentacosyl, hexacosyl, heptacosyl, octacosyl, nonacosyl, triacontyl, propenyl, butenyl, pentenyl, hexenyl, heptenyl, octenyl, nonenyl, decenyl, undecenyl, dodecenyl, tridecenyl, tetradecenyl, pentadecenyl, hexadecenyl, heptadecenyl, octadecenyl, nonadecenyl, eicosenyl, heneicosenyl, docosenyl, tricosenyl, tetracosenyl, pentacosenyl, hexacosenyl, heptacosenyl, octacosenyl, nonacosenyl, triacontenyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonynyl, decynyl, undecynyl, dodecynyl, tridecynyl, tetradecynyl, pentadecynyl, hexadecynyl, heptadecynyl, octadecynyl, nonadecynyl, eicosynyl, heneicosynyl, docosynyl, tricosynyl, tetracosynyl, pentacosynyl, hexacosynyl, heptacosynyl, octacosynyl, nonacosynyl, and triacontynyl, phenyl, napthyl, anthracenyl, pyrenyl, biphenyl, benzyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclooctyl, cyclononyl, cyclodecyl, cycloundecyl, cyclododecyl, fluoro, chloro, bromo, iodo, trimethylsilyl, triethylsilyl, tripropylsilyl, dimethylethylsilyl, diethylmethylsilyl, trimethoxysilyl, tirethoxysilyl, tripropoxysilyl, methoxy, ethoxy, propoxy, butoxy, phenoxy, or a nitro, carboxylic acid, ester, ketone (excluding 1,2-diketones) or aldehyde group, provided that two R groups can connect to form substituted or unsubstituted, saturated, partially unsaturated or aromatic ring structures; and each X* is, independently, F, Cl, Br, I, OR**, SR**, NR**₂, PR**₂, or NO₂; and each R* and each R** are, independently, selected from the group consisting of methyl, ethyl, *n*-propyl, *iso*-propyl, *n*-butyl, *sec*-butyl, *tert*-butyl, and cyclohexyl.

17. The compound of claim 16, where R* is *tert*-butyl or *iso*-propyl, R** is methyl, and X* is F, Cl, Br or OR**.
18. The compound of any of claims 1 to 13 where each X is independently selected from the group consisting of ZETA-CATACHOLATES.

19. The composition of any of claims 1 to 13 where each X is independently selected from the group consisting of THETA-CATACHOLATES.
20. A catalyst system comprising an activator and the compound of any of the above claims.
21. The catalyst system of claim 20 wherein the activator comprises an alumoxane and or a modified alumoxane.
22. The catalyst system of claim 20 wherein the activator comprises methyl alumoxane and or modified methyl alumoxane.
23. The catalyst system of claim 20 wherein the activator comprises $[\text{Me}_2\text{PhNH}][\text{B}(\text{C}_6\text{F}_5)_4]$, $[\text{Ph}_3\text{C}][\text{B}(\text{C}_6\text{F}_5)_4]$, $[\text{Me}_2\text{PhNH}][\text{B}((\text{C}_6\text{H}_3-3,5-(\text{CF}_3)_2))_4]$, $[\text{Ph}_3\text{C}][\text{B}((\text{C}_6\text{H}_3-3,5-(\text{CF}_3)_2))_4]$, $[\text{Bu}_3\text{NH}][\text{BF}_4]$, $[\text{NH}_4][\text{PF}_6]$, $[\text{NH}_4][\text{SbF}_6]$, $[\text{NH}_4][\text{AsF}_6]$, $[\text{NH}_4][\text{B}(\text{C}_6\text{H}_5)_4]$, $\text{B}(\text{C}_6\text{F}_5)_3$ and/or $\text{B}(\text{C}_6\text{H}_5)_3$.
24. The catalyst system of claim 20 wherein the activator is an ionic stoichiometric activator compound.
25. The catalyst system of claim 20 wherein the activator is a neutral stoichiometric activator compound.
26. The catalyst system of claim 20 wherein the activator is a non-coordinating anion.
27. The catalyst system of claim 20 wherein the activator is selected from the group consisting of: trimethylammonium tetraphenylborate, triethylammonium tetraphenylborate, tripropylammonium tetraphenylborate, tri(*n*-butyl)ammonium tetraphenylborate, tri(*tert*-butyl)ammonium tetraphenylborate, N,N-dimethylanilinium tetraphenylborate, N,N-diethylanilinium tetraphenylborate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetraphenylborate, trimethylammonium tetrakis(pentafluorophenyl)borate,

triethylammonium tetrakis(pentafluorophenyl)borate, tripropylammonium tetrakis(pentafluorophenyl)borate, tri(*n*-butyl)ammonium tetrakis(pentafluorophenyl)borate, tri(*sec*-butyl)ammonium tetrakis(pentafluorophenyl)borate, N,N-dimethylanilinium tetrakis(pentafluorophenyl)borate, N,N-diethylanilinium tetrakis(pentafluorophenyl)borate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetrakis(pentafluorophenyl)borate, trimethylammonium tetrakis-(2,3,4,6-tetrafluorophenyl) borate, triethylammonium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, tripropylammonium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, tri(*n*-butyl)ammonium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, dimethyl(*tert*-butyl)ammonium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, N,N-dimethylanilinium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, N,N-diethylanilinium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetrakis-(2,3,4,6-tetrafluorophenyl)borate, trimethylammonium tetrakis(perfluoronaphthyl)borate, triethylammonium tetrakis(perfluoronaphthyl)borate, tripropylammonium tetrakis(perfluoronaphthyl)borate, tri(*n*-butyl)ammonium tetrakis(perfluoronaphthyl)borate, tri(*tert*-butyl)ammonium tetrakis(perfluoronaphthyl)borate, N,N-dimethylanilinium tetrakis(perfluoronaphthyl)borate, N,N-diethylanilinium tetrakis(perfluoronaphthyl)borate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetrakis(perfluoronaphthyl)borate, trimethylammonium tetrakis(perfluorobiphenyl)borate, triethylammonium tetrakis(perfluorobiphenyl)borate, tripropylammonium tetrakis(perfluorobiphenyl)borate, tri(*n*-butyl)ammonium tetrakis(perfluorobiphenyl)borate, tri(*tert*-butyl)ammonium tetrakis(perfluorobiphenyl)borate, N,N-dimethylanilinium tetrakis(perfluorobiphenyl)borate, N,N-diethylanilinium tetrakis(perfluorobiphenyl)borate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetrakis(perfluorobiphenyl)borate, trimethylammonium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, triethylammonium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, tripropylammonium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, tri(*n*-butyl)ammonium tetrakis(3,5-

bis(trifluoromethyl)phenyl)borate, tri(*tert*-butyl)ammonium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, N,N-dimethylanilinium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, N,N-diethylanilinium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, N,N-dimethyl-(2,4,6-trimethylanilinium) tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, di-(*iso*-propyl)ammonium tetrakis(pentafluorophenyl)borate, and dicyclohexylammonium tetrakis(pentafluorophenyl)borate, tri(o-tolyl)phosphonium tetrakis(pentafluorophenyl)borate, tri(2,6-dimethylphenyl)phosphonium tetrakis(pentafluorophenyl)borate, tropillium tetraphenylborate, triphenylcarbenium tetraphenylborate, triphenylphosphonium tetraphenylborate, triethylsilylium tetraphenylborate, benzene(diazonium)tetraphenylborate, tropillium tetrakis(pentafluorophenyl)borate, triphenylcarbenium tetrakis(pentafluorophenyl)borate, triphenylphosphonium tetrakis(pentafluorophenyl)borate, triethylsilylium tetrakis(pentafluorophenyl)borate, benzene(diazonium) tetrakis(pentafluorophenyl)borate, tropillium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, triphenylcarbenium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, triphenylphosphonium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, triethylsilylium tetrakis-(2,3,4,6-tetrafluorophenyl)borate, benzene(diazonium) tetrakis-(2,3,4,6-tetrafluorophenyl)borate, tropillium tetrakis(perfluoronaphthyl)borate, triphenylcarbenium tetrakis(perfluoronaphthyl)borate, triphenylphosphonium tetrakis(perfluoronaphthyl)borate, triethylsilylium tetrakis(perfluoronaphthyl)borate, benzene(diazonium) tetrakis(perfluoronaphthyl)borate, tropillium tetrakis(perfluorobiphenyl)borate, triphenylcarbenium tetrakis(perfluorobiphenyl)borate, triphenylphosphonium tetrakis(perfluorobiphenyl)borate, triethylsilylium tetrakis(perfluorobiphenyl)borate, benzene(diazonium) tetrakis(perfluorobiphenyl)borate, tropillium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, triphenylcarbenium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, triphenylphosphonium tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, triethylsilylium tetrakis(3,5-

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bis(trifluoromethyl)phenyl)borate, and benzene(diazonium) tetrakis(3,5-bis(trifluoromethyl)phenyl)borate.

28. The catalyst system of any of claim 20 to 27 further comprising a co-activator.
29. A composition comprising a compound of any of claims 1 to 19 and a support.
30. A composition comprising a catalyst system of any of claims 20 to 28 and a support.
31. The composition of claim 29 or 30 where the support comprises one or more Group-2, -3, -4, -5, -13, or -14 metal or metalloid oxides.
32. The composition of claim 29 or 30 where the support comprises silica, alumina, silica-alumina, or mixtures thereof.
33. The composition of claim 29 or 30 where the support is silica.
34. A method to polymerize an unsaturated monomer comprising contacting the monomer with the catalyst system of any of claims 20 to 28.
35. A method to polymerize an unsaturated monomer comprising contacting the monomer with the composition of any of claims 30 to 34.
36. A method to oligomerize an unsaturated monomer comprising contacting the monomer with the catalyst system of any of claims 20 to 28.
37. A method to oligomerize an unsaturated monomer comprising contacting the monomer with the composition of any of claims 30 to 34.
38. The method of any of claims 34 to 37 where the monomer comprises one or more C₂ to C₁₀₀ olefins.
39. The method of any of claims 34 to 37 where the monomer comprises one or

more of ethylene, propylene, butene, pentene, hexene, heptene, octene, nonene, decene, dodecene, 4-methylpentene-1, 3-methylpentene-1, 3,5,5-trimethylhexene-1, and 5-ethylnonene-1.

40. The method of any of claims 34 to 38 where the monomer comprises ethylene.
41. The method of any of claims 34 to 38 where the monomer comprises propylene.
42. The transition metal compound of any of claims 1 and 5-19 wherein M is nickel, the compound is dimagnetic and the coordination sphere of the compound is arranged in a square planar geometry.
43. The compound of claim 1, 2, 3, or 4 wherein L is selected from the group consisting of IOTA-LIGANDS.
44. A catalyst system comprising the compound of claim 42 or 43, an activator and an optional support.
45. A method to oligomerize or polymerize an unsaturated monomer comprising contacting the monomer with the catalyst system of claim 44.
46. The method of any of claims 34, 35, 36, 37, 38, 39, 40, 41 or 45 wherein the monomer comprises one or more norbornenes, substituted norbornenes, cyclopentadienyls or substituted cyclopentene.